STEREO INTEGRATED AMPLIFIER

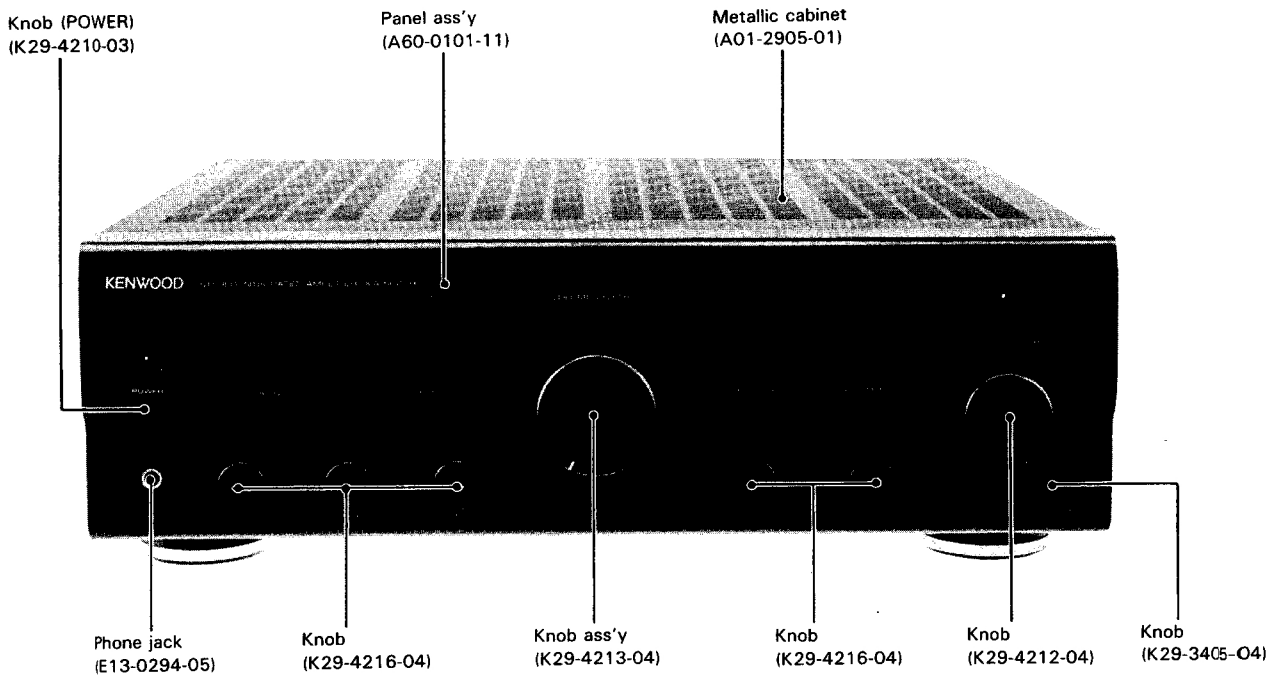
KA-5040R

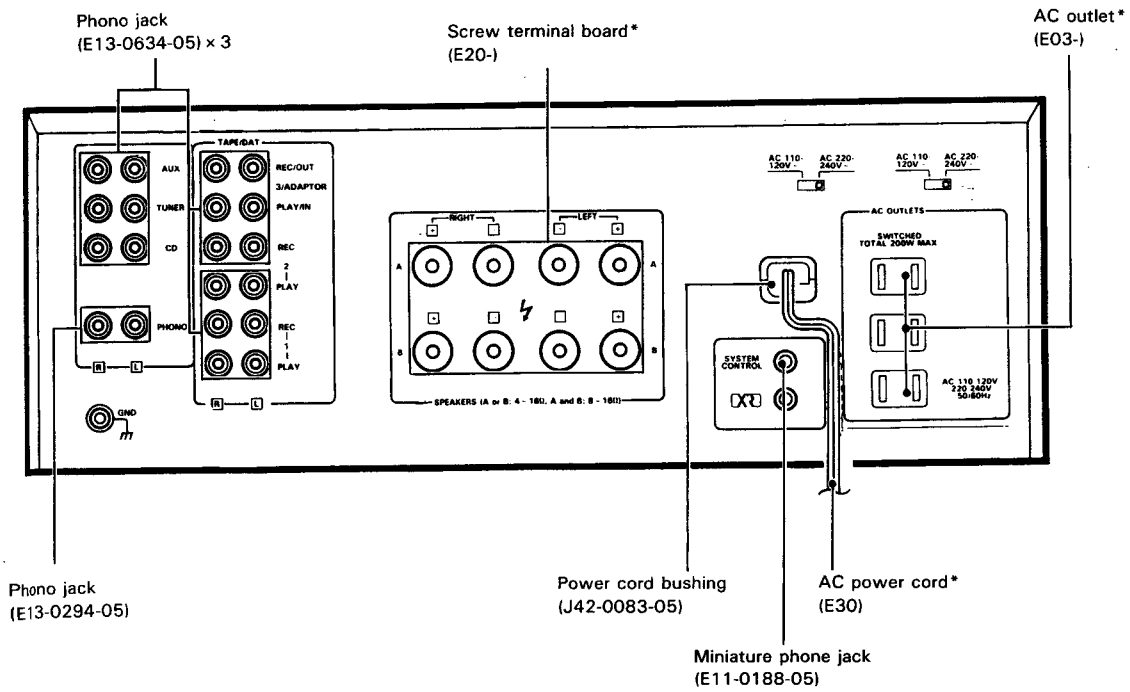
SERVICE MANUAL

KENWOOD

KENW-03201

©1991-6 PRINTED IN JAPAN
B51-4415-00(S)2140





*Refer to parts list on page 29.

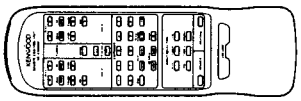
KA-5040R

CONTENTS

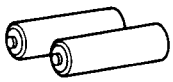
REMOTE CONTROL OPERATION 3
CIRCUIT DESCRIPTION 4
ADJUSTMENT/REGLAGE/ABGLEICH 10
WIRING DIAGRAM 11
PC BOARD 13
SCHEMATIC DIAGRAM 19
EXPLODED VIEW 27
PARTS LIST 29
SPECIFICATIONS 33

Accessories

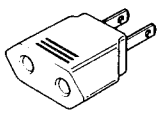
Remote control unit 1
(X94-1000-00) (A09-0115-13: Battery cover)



Batteries
(R03/UM-4/"AAA") 2



AC plug adaptor 1
(Except for some areas.)
For the unit with a European AC plug in areas other than Europe.
(E03-0115-05)



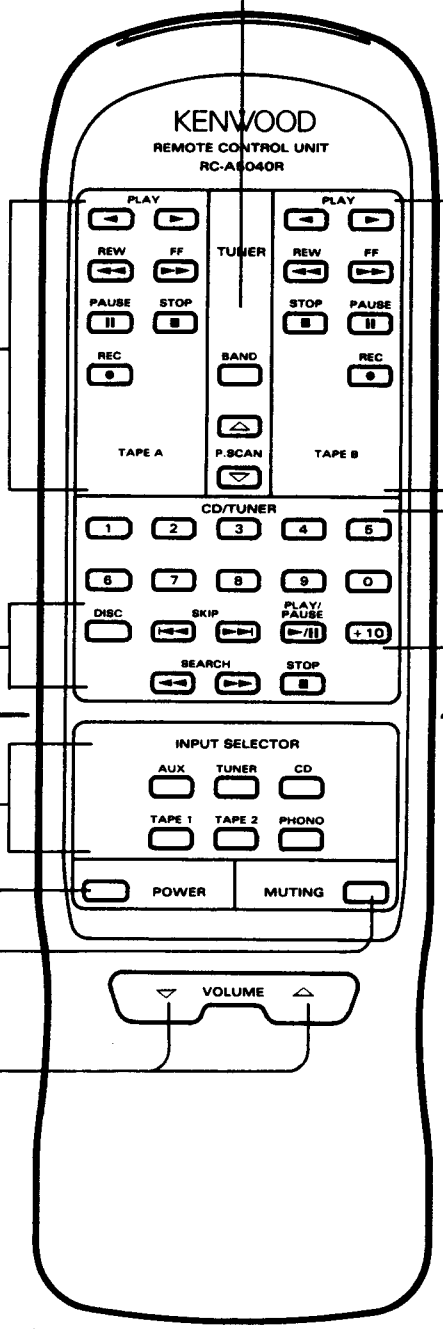
REMOTE CONTROL OPERATION

Operation keys for KENWOOD components connected by System Control cords

TUNER operation keys

TAPE A operation keys
These keys perform the same operations as the corresponding keys on the cassette deck. However, operations requiring simultaneous pressing of two keys are not possible.
These keys are used for operating Deck A of a double- cassette deck.

TAPE B operation keys
These keys perform the same operations as the corresponding keys on the cassette deck. However, operations requiring simultaneous pressing of two keys are not possible.
These keys are used for operating a single-cassette deck or Deck B of a double-cassette deck.



Numeric keys
When the INPUT SELECTOR is set to TUNER:
These keys are used for specifying preset station numbers.
When the INPUT SELECTOR is set to CD:
These keys are used for direct tune selection.

CD player operation keys

INPUT SELECTOR keys

POWER key

MUTING key

VOLUME UP △ DOWN ▽ keys

KA-5040R operation keys
These keys have the same function as the corresponding keys on the main unit.

KA-5040R

CIRCUIT DESCRIPTION

MICROPROCESSOR (μPD75104G-778)

1. TEST MODE

1.1 Test Mode Using Mainframe Keys

(1) Setting

Plug in while pressing the SOURCE DIRECT key.

(2) Contents

- Switch the power on so that all LED indicators go on. Operate all TACT keys and the rotary encoder to cancel all the LED indicators that go on. In the all-light mode, all the INPUT SELECTOR LED indicators do not go on at the same time. The next SELECTOR LED indicator goes on approximately 100 ms after one SELECTOR LED indicator goes on in the same order as during input selector selection using the rotary encoder, because the output current exceeds the absolute maximum rating when all the INPUT SELECTOR LED indicators go on, since each LED indicator is directly driven by a microcomputer.
- When the LOUDNESS key is pressed while the test mode is set with a mainframe key , The electromotive VOLUME decreases. When the MUTING key is pressed, the VOLUME increases. The VOLUME stops when the SOURCE DIRECT key is pressed.

(3) Cancellation

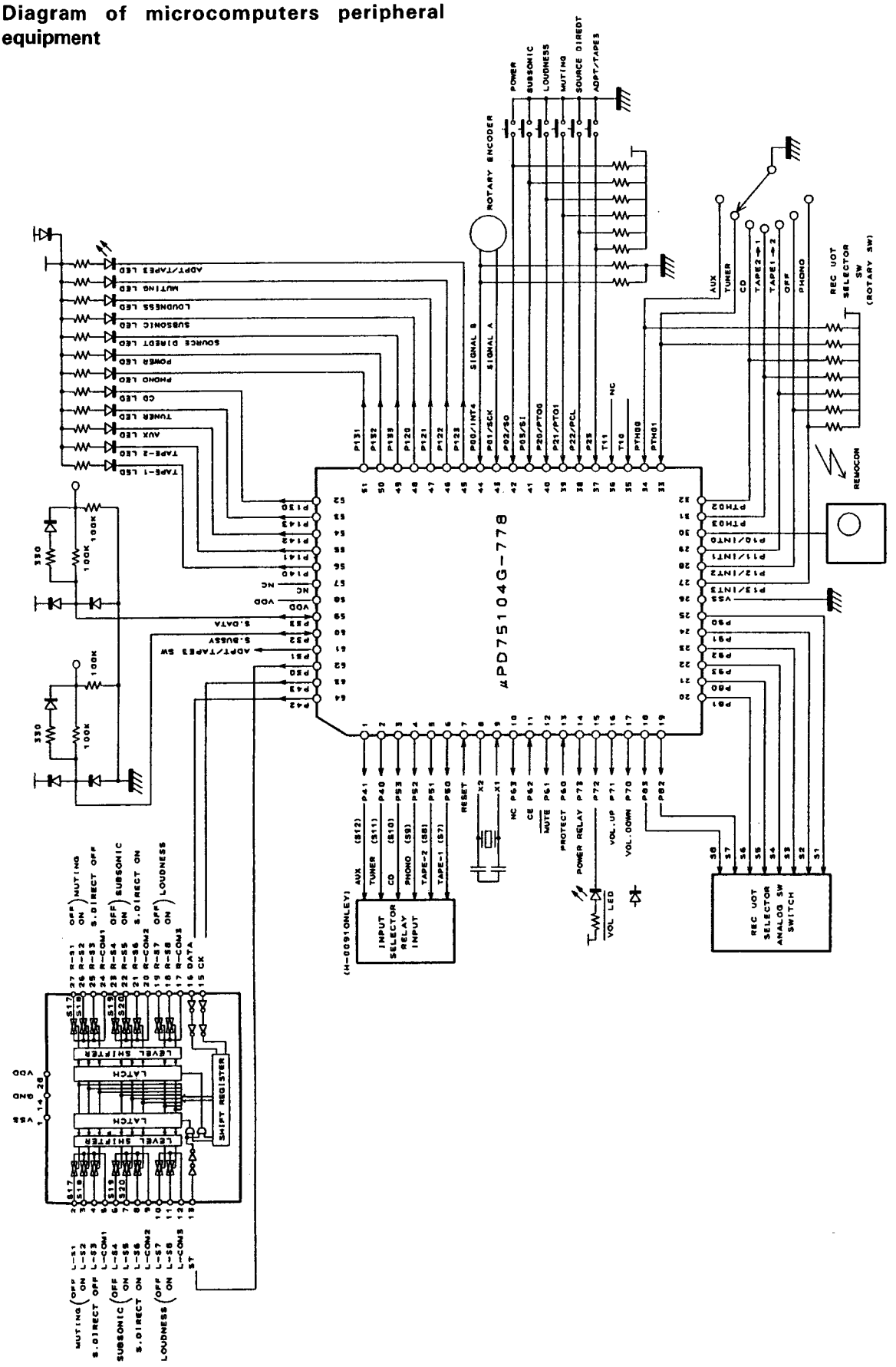
- Plug off. If there a backup function is to be used, plug off and destroy the backup check data when a test mode flag is set during backup operation.

2. INITIALIZING

Insert the AC plug into a wall outlet while pressing the POWER key.

CIRCUIT DESCRIPTION

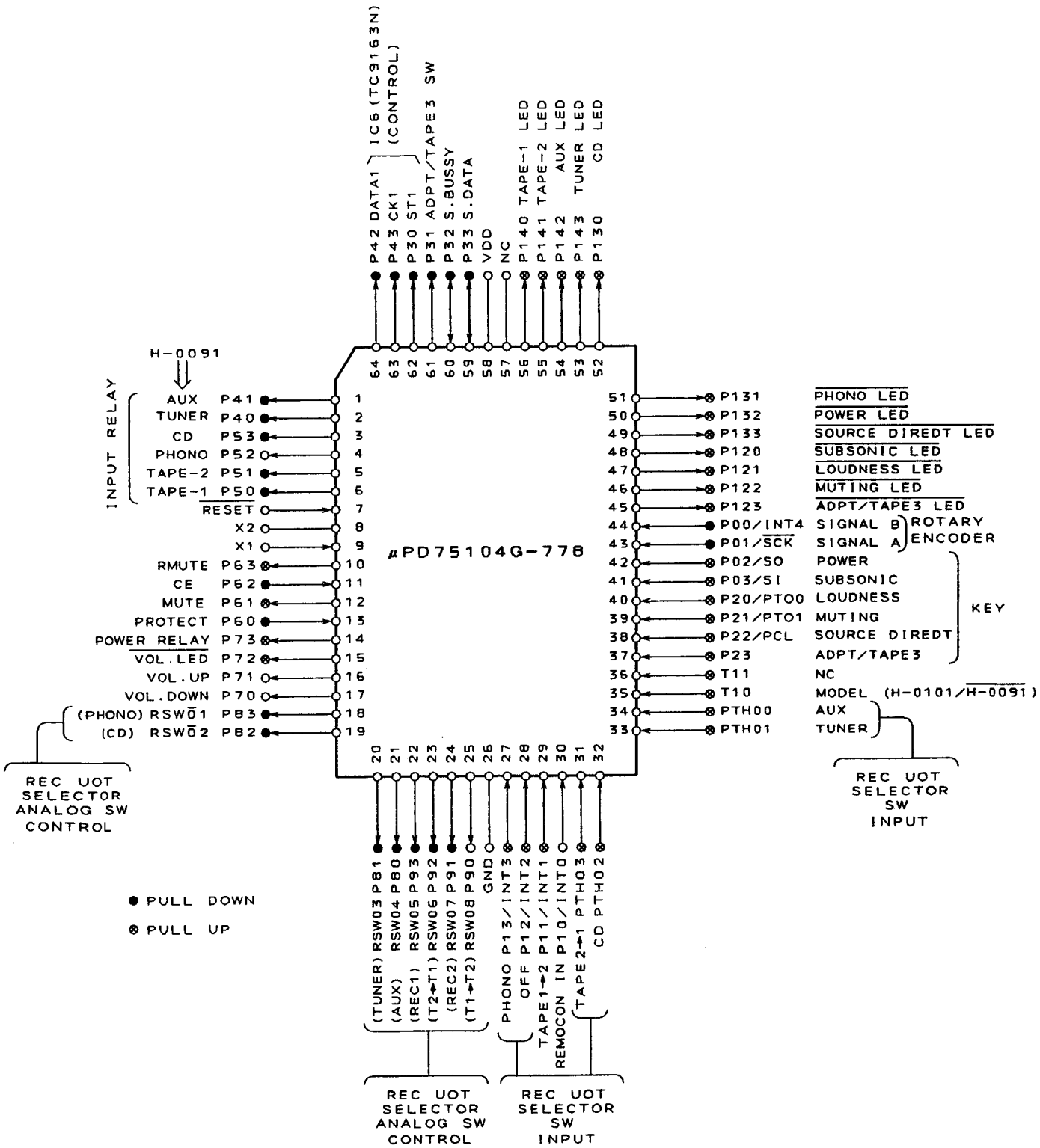
3. Diagram of microcomputers peripheral equipment



KA-5040R

CIRCUIT DESCRIPTION

4. PIN CONNECTIONS



CIRCUIT DESCRIPTION

5. PIN FUNCTIONS

Pin No.	Pin name	I/O	Name	Description
1	P41	O	SRAUX	AUX SELECTOR RELAY control pin (high when active). Outputs a low signal in the backup mode.
2	P40	O	SRTUNER	TUNER SELECTOR RELAY control pin (high when active). Outputs a low signal in the backup mode.
3	P53	O	SRCD	CD SELECTOR RELAY control pin (high when active). Outputs a low signal in the backup mode.
4	P52	O	SRPHONO	PHONO SELECTOR RELAY control pin (high when active). Outputs a low signal in the backup mode.
5	P51	O	SRTAPE2	TAPE2 SELECTOR RELAY control pin (high when active). Outputs a low signal in the backup mode.
6	P50	O	SRTAPE1	TAPE1 SELECTOR RELAY control pin (high when active). Outputs a low signal in the backup mode.
7	$\overline{\text{RESET}}$	I		Microcomputer reset input pin.
8	X2	O		Ceramic connection pin for microcomputer system clock oscillation (4.19 MHz).
9	X1	I		
10	P63	O	RMUTE	Unused. Enters the input mode during backup.
11	P62	I	/CE	Backup state detection pin (low when active). Enters the input mode during backup.
12	P61	O	MUTE	Mute signal output pin (high when active). Enters the input mode during backup.
13	P60	I	PROTECT	Protect state detection pin (high when active). The POWER LED indicator blinks when a high signal is input to this pin during the power-on sequence. Enters the input mode during backup.
14	P73	O	POWER RELAY	POWER RELAY control pin. POWER ON: High POWER OFF: Low Enters the input mode during backup.
15	P72	O	$\overline{\text{VOL. LED}}$	Volume index LED control pin. Goes on: Low Goes off: High Enters the input mode during backup.
16	P71	O	VOL. UP	Electromotive volume control Up signal output pin. Volume control Up: High Except volume control Up: Low Enters the input mode during backup.
17	P70	O	VOL. DOWN	Electromotive volume control Down signal output pin. Volume control Down: High Except volume control Down: Low
18~25	P83~P90	O	RSW08~RSW01	Control signal output pin of REC OUT SELECTOR analog switch (high when active). Outputs a signal according to the REC Out selector state as shown on the attached sheet, Outputs a low signal in the back-up mode.
26	Vss		GND	Microcomputer GND pin.
27	P13/INT3	I	RSWI (PHONO)	REC out selector state setting input pin (PHONO). (Low when active.)
28	P12/INT2	I	RSWI (OFF)	REC out selector state setting input pin (OFF). (Low when active.)
29	P11/INT1	I	RSWI (TAPE1→2)	REC out selector state setting input pin (TAPE1→TAPE2). (Low when active.)

KA-5040R

CIRCUIT DESCRIPTION

Pin No.	Pin name	I/O	Name	Description
30	PIO/INITO	I	REMOCON IN	Remote control signal input pin.
31	PTH03	I	RSWI (TAPE2→1)	REC out selector state setting input pin (TAPE2 → TAPE1). (Low when active.)
32	PTH02	I	RSWI (CD)	REC out selector state setting input pin (CD). (Low when active.)
33	PTHO1	I	RSWI (TUNER)	REC out selector state setting input pin (TUNER). (Low when active.)
34	PTHOO	I	RSWI (AUX)	REC out selector state setting input pin (AUX). (Low when active.)
35	TIO	I		Unused.
36	TI1	I		Unused.
37	P23	I	KEYIN (ADPT/TAPE3)	ADPT/TAPE3 key input pin (low when active). Enters the input mode during backup.
38	P22/PCL	I	KEYIN (SOURCE DIRECT)	SOURCE DIRECT key input pin (low when active). Enters the input mode during backup.
39	P21/PTO1	I	KEYIN (MUTING)	MUTING key input pin (low when active). Enters the input mode during backup.
40	P20/PTOO	I	KEYIN (LOUDNESS)	LOUDNESS key input pin (low when active). Enters the input mode during backup.
41	PO3/SI	I	KEYIN (SUBSONIC)	SUBSONIC key input pin (low when active).
42	PO2/SO	I	KEYIN (POWER)	POWER key input pin (low when active). Enters the input mode during backup.
43	PO1/SCK	I	REI A	ROTARY ENCODER A signal input pin. Enters the input mode during backup.
44	POO/INT4	I	REI B	ROTARY ENCODER B signal input pin.
45	PI23	O	ADPT/TAPE23 LED	ADPT/TAPE3 LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
46	PI22	O	MUTING LED	MUTING LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
47	PI21	O	LOUDNESS LED	LOUDNESS LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
48	P120	O	SUBSONIC LED	SUBSONIC LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
49	P133	O	SOURCE DIRECT LED	SOURCE DIRECT LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
50	PI32	O	POWER LED	POWER LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
51	PI31	O	PHONO LED	PHONO LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
52	PI30	O	CD LED	CD LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.

CIRCUIT DESCRIPTION

Pin No.	Pin name	I/O	Name	Description
53	PI43	O	TUNER LED	TUNER LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
54	PI42	O	AUX LED	AUX LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
55	PI41	O	TAPE2 LED	TAPE1 LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
56	PI40	O	TAPE1 LED	TAPE1 LED control pin (low when active). No pull-up resistor is incorporated by a mask option. Enters the input mode during backup.
57	NC			
58	Vdd			Microcomputer power supply pin.
59	P33	I/O	SDATA	Serial communication SDATA signal input/output pin. Enters the input mode during backup.
60	P32	I/O	SBUSY	Serial communication SBUSY signal input/output pin. Enters the input mode during backup.
61	P31	O	ADPT/TAPE3	ADPT/TAPE3 analog switch control signal output pin. ADPT/TAPE3 ON: High ADPT/TAPE3 OFF: low Outputs a low signal in the backup mode.
62	P30	O	ST1	FUNCTION IC TC9163N ST signal output pin for MUTING, SUBSONIC, SOURCE DIRECT, and LOUDNESS. Usually set low. Outputs a low signal in the backup mode.
63	P43	O	CK1	FUNKTION IC TC9163N CK signal output pin for MUTING, SUBSONIC, SOURCE DIRECT, and LOUDNESS. Usually set low. Outputs a low signal in the backup mode.
63	P43	O	DATA1	FUCTION IC TC9163N DATA signal output pin for MUTING, SUBSONIC, SOURCE DIRECT, and LOUDNESS. Usually set low. Outputs a low signal in the backup mode.

KA-5040R

ADJUSTMENT/REGLAGE/ABGLEICH

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
	Unless otherwise specified, set the respective switches as follows: POWER: ON SPEAKER: B REC OUT: OFF SELECTOR: PHONO						
1	IDLE CURRENT	–	Connect a DC voltmeter across CP1 (L) CP2 (R) (X09-)	VOLUME: 0	VR1 (L) VR2 (R) (X09-)	15 mV (34 mA).	(a)

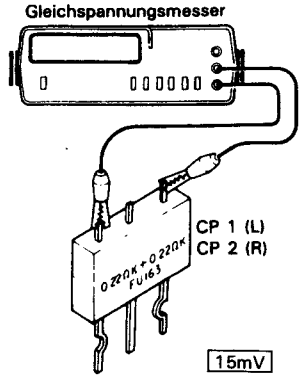
REGLAGES

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE L'AMPLIFICATEUR	POINTS DE L'ALIGNMENT	ALIGNER POUR	FIG.
	Sauf indicationcontraire, régler comme suit les commandes respectives: POWER:ON SPEAKER: B REC OUT: OFF SELECTOR:PHONO						
1	COURANT DE POLARISATION	–	Connecter un voltmètre de CC SUR CP1 (G) CP2 (D) (X09-)	VOLUME: 0	VR1 (G) VR2 (D) (X09-)	15 mV (34 mA).	(a)

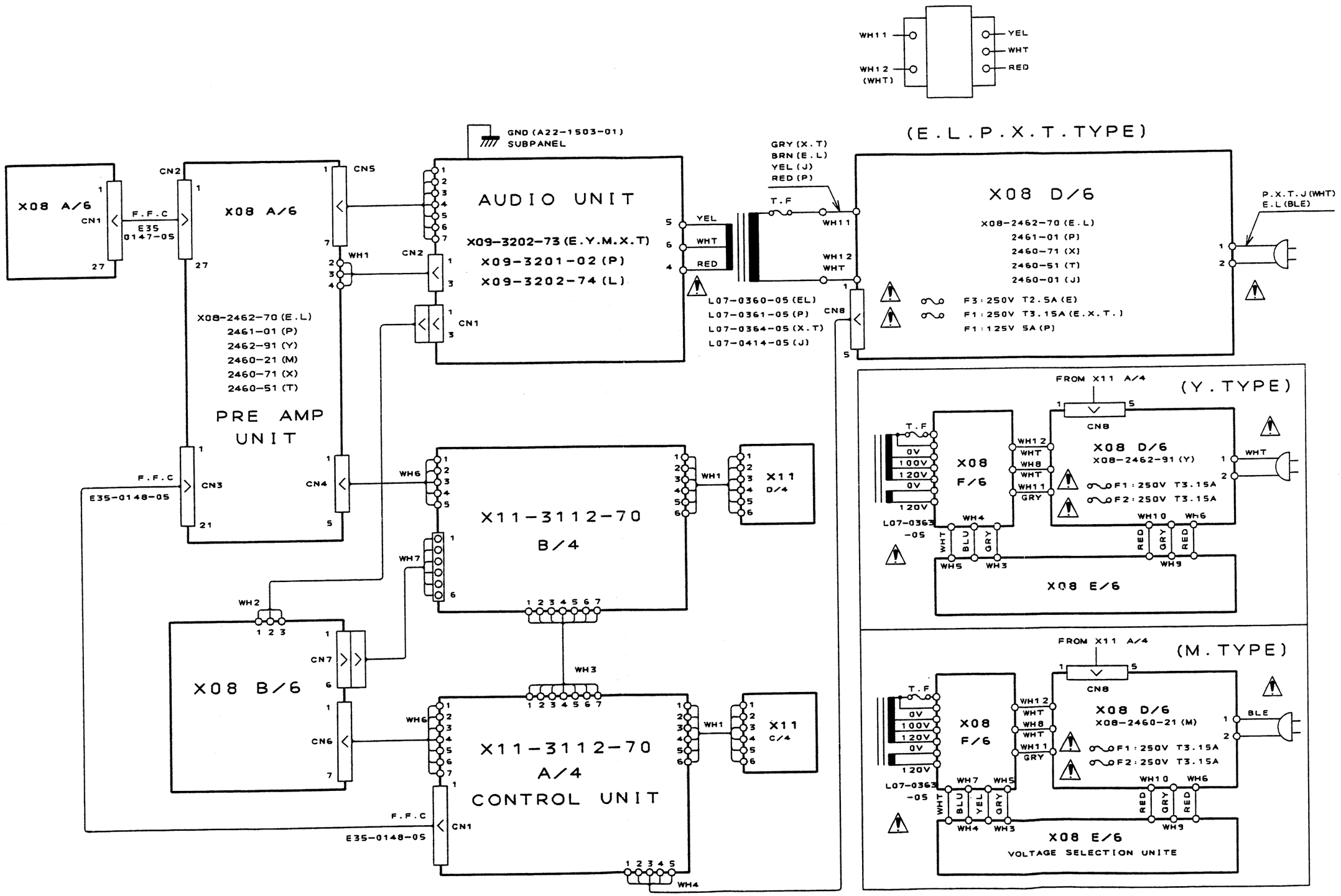
ABGLEICH

NR.	GENGENSTAND	EINGANGS-EINSTELLUNG	AUSANG-EINSTELLUNG	VORSTÄRKER-EINSTELLUNG	ABGLEICHE-PUNKTE	ABGLEICHEN FÜR	ABB.
	Wenn nicht anders angegeben, die einzelnen Schalter wie folgt einstellen: POWER: ON SPEAKER: B REC OUT: OFF SELECTER: PHONO						
1	LEERLAUFSTROM	–	Einen Gleichspannungs-messer über CP1 (L) CP2 (R) anschließen. (X09-)	VOLUME: 0	VR1 (L) VR2 (R) (X09-)	15 mV (34 mA).	(a)

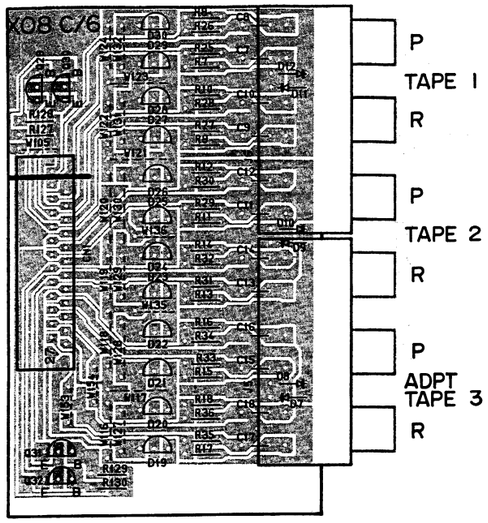
(a) DC voltmeter
Voltmètre de CC
Gleichspannungsmesser

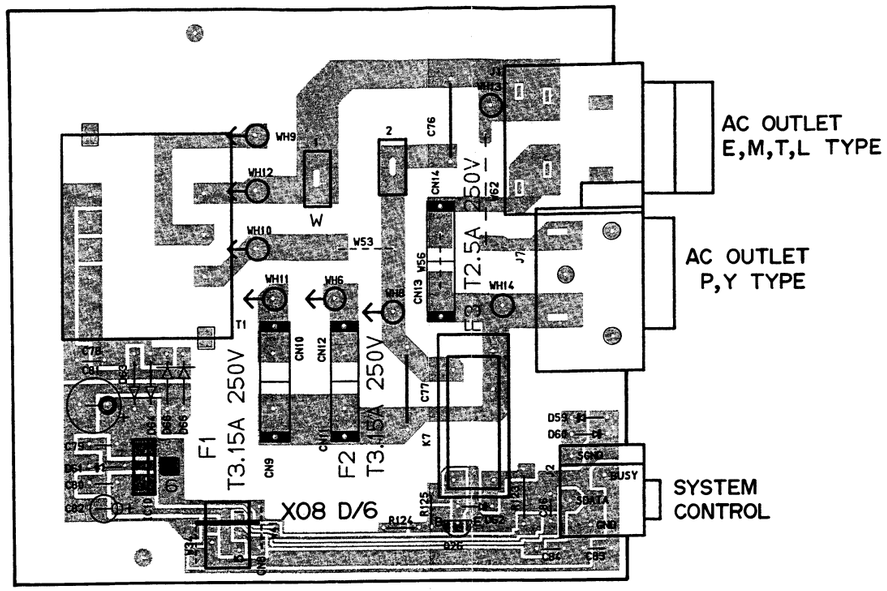


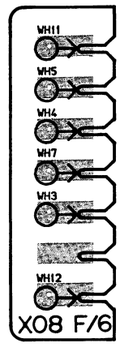
WIRING DIAGRAM

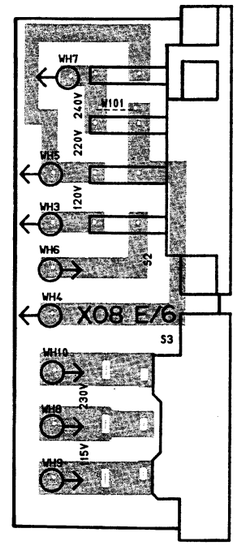


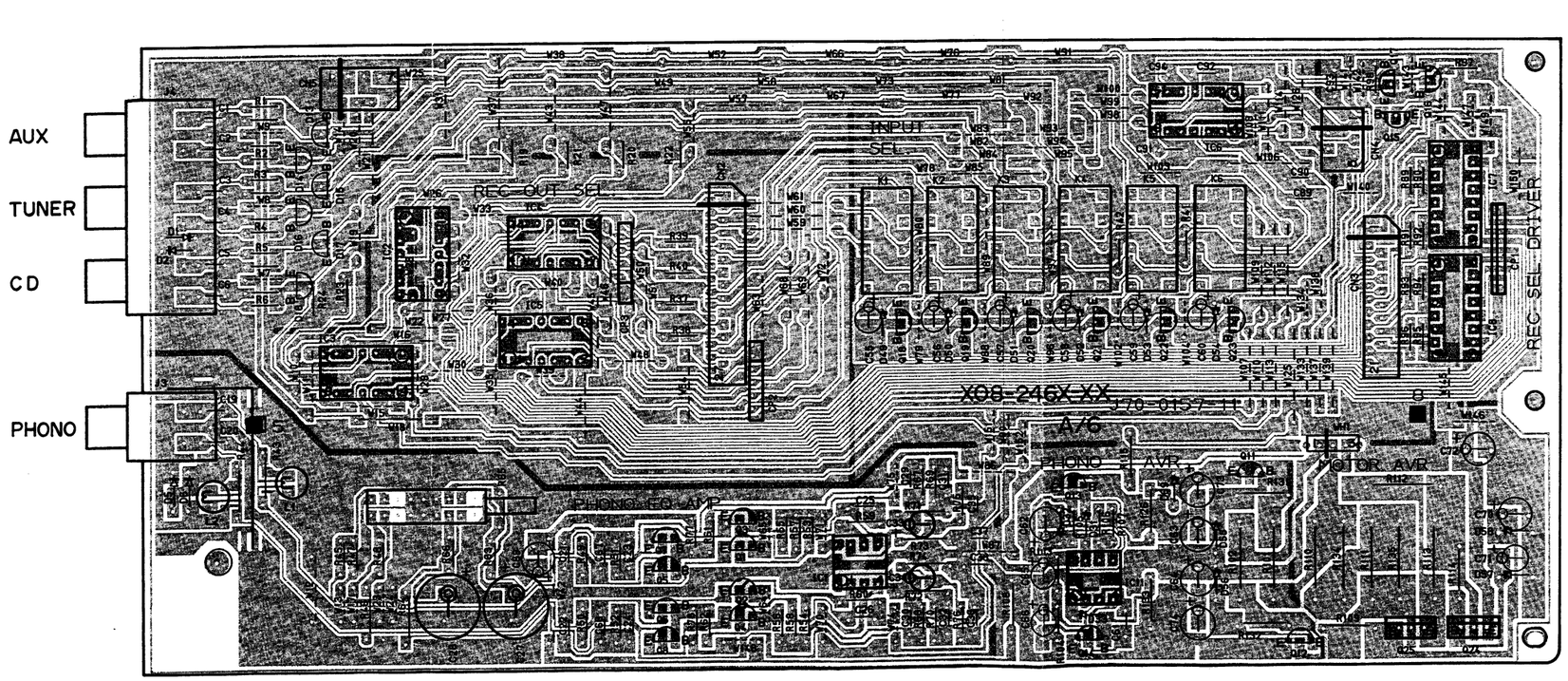
PC BOARD (Component side view)

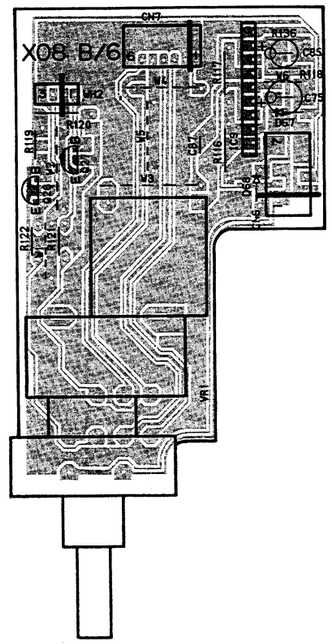








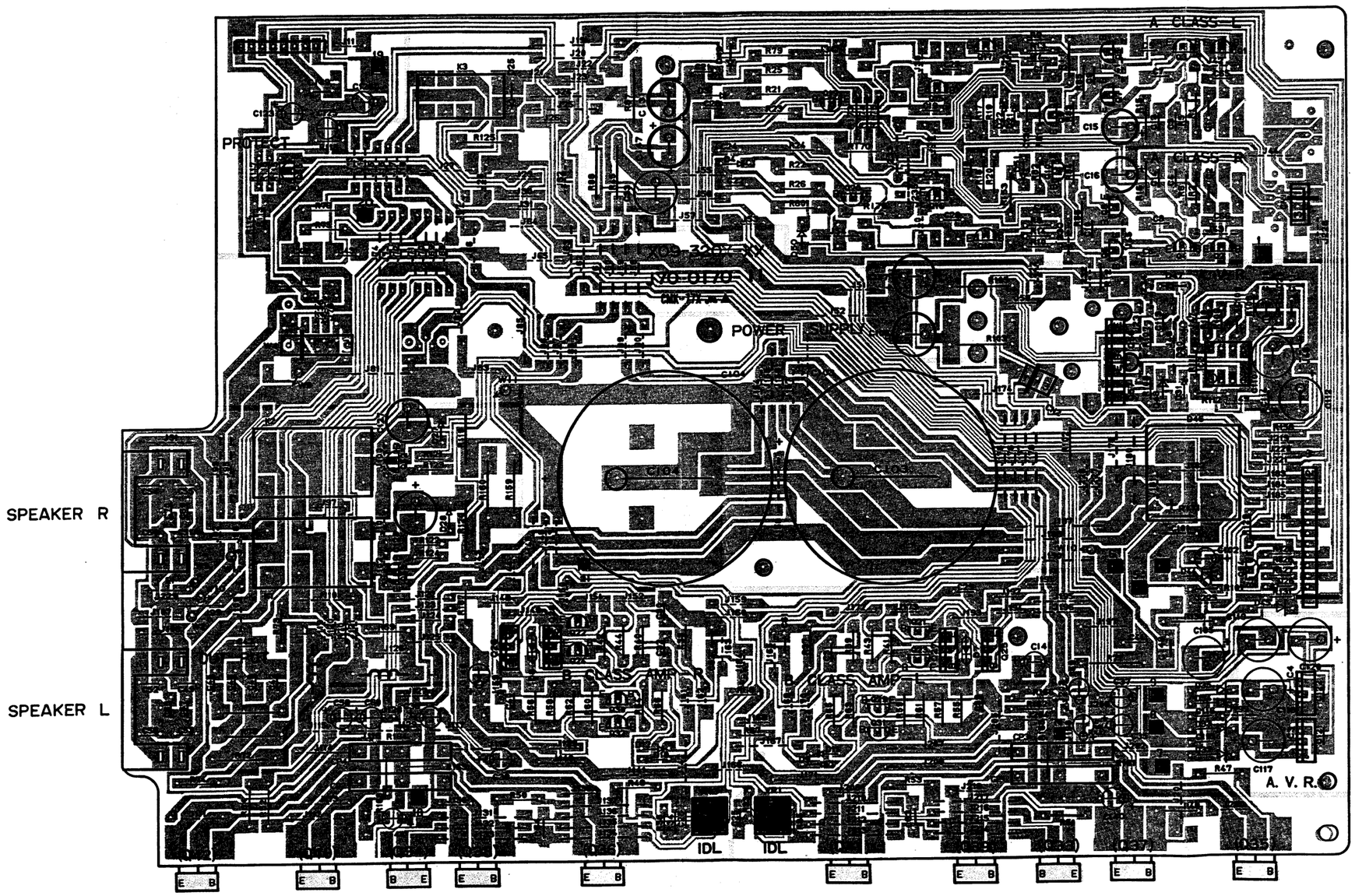




VOLUME

Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Component side view)

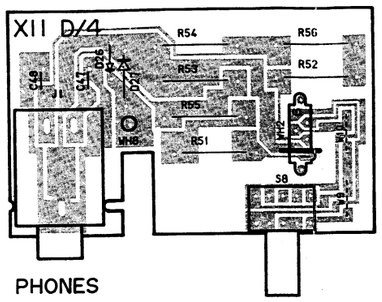


Refer to the schematic diagram for the values of resistors and capacitors.

(ENW-3201/Druck 3

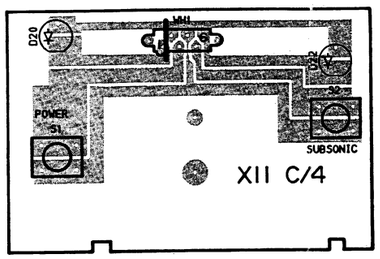
PC BOARD (Component side view)

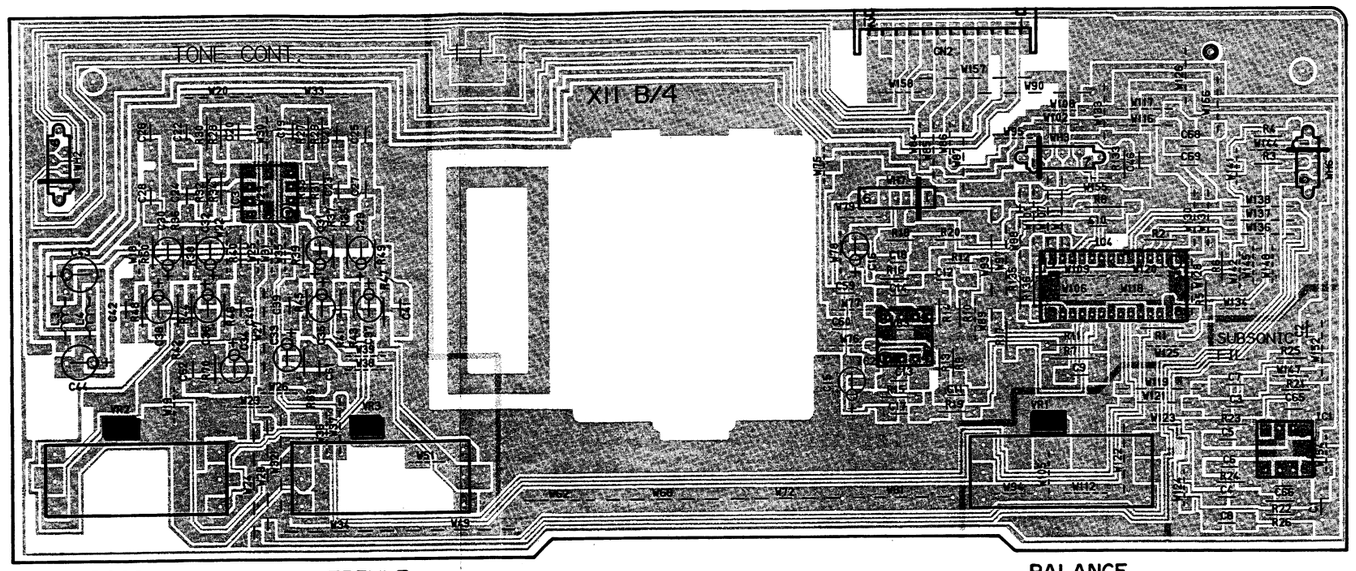
CONTROL UNIT



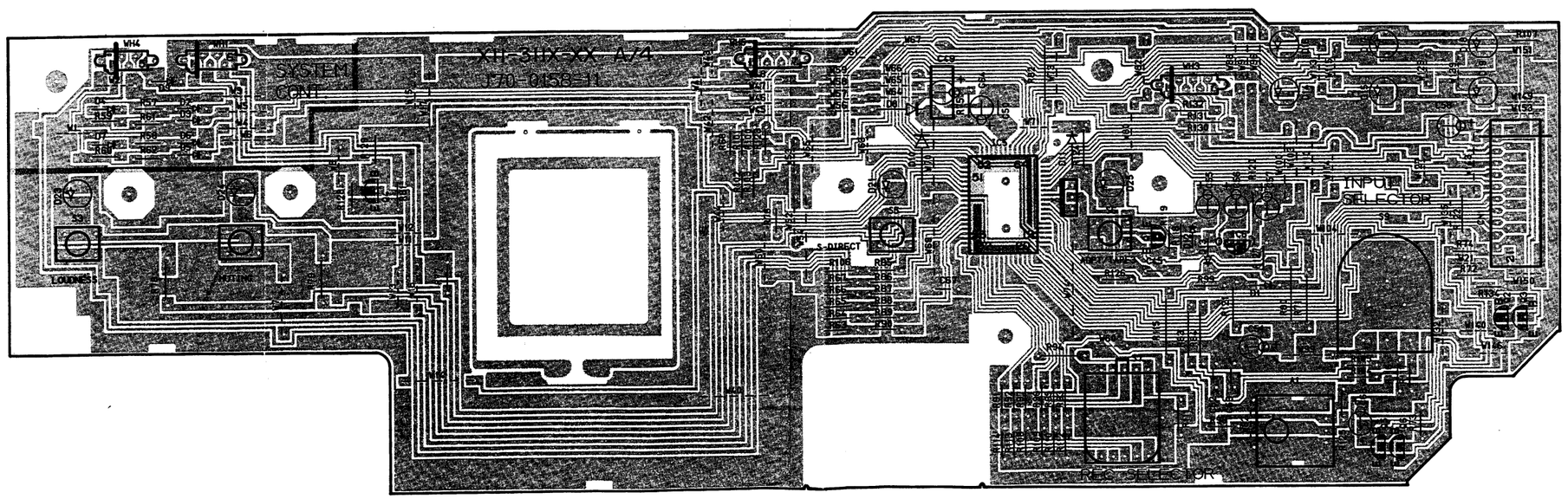
PHONES

SPEAKERS



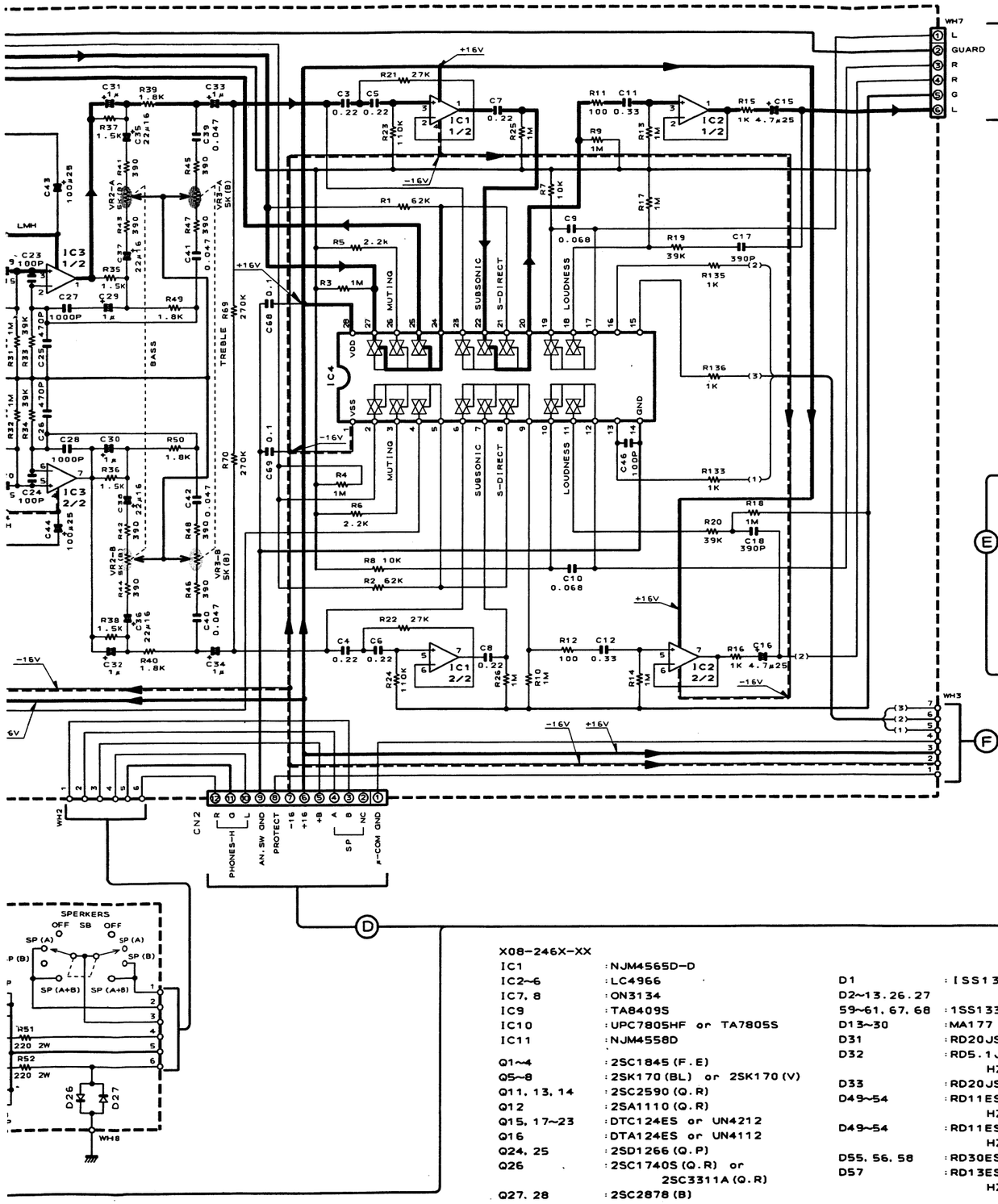


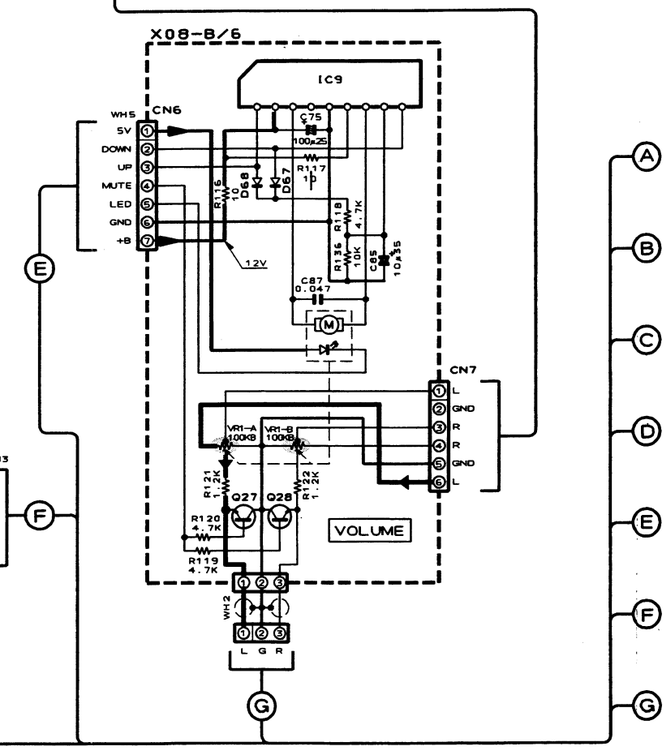
BASS TREVLE BALANCE



18

Refer to the schematic diagram for the values of resistors and capacitors.





X09-320X-XX

COUNTRY	ABB.	UNIT NAME
EUROPE	E	2-73
EUROPE	Y	
GENERAL MARKET	M	
AUSTRALIA	X	
ENGLAMD	T	
NORTHERN EUROPE	L	2-74
CANADA	P	1-02

X08-246X-XX

COUNTRY	ABB.	UNIT NAME
EUROPE	E	2-70
CANADA	P	1-01
EUROPE	Y	2-91
GENERAL MARKET	M	0-21
AUSTRALIA	X	0-71
ENGLAMD	T	0-51

X08-246X-XX

IC1	:NJM4565D-D
IC2~6	:LC4966
IC7, 8	:ON3134
IC9	:TA8409S
IC10	:UPC7805HF or TA7805S
IC11	:NJM4558D
Q1~4	:2SC1845 (F.E)
Q5~8	:2SK170 (BL) or 2SK170 (V)
Q11, 13, 14	:2SC2590 (Q.R)
Q12	:2SA1110 (Q.R)
Q15, 17~23	:DTC124ES or UN4212
Q16	:DTA124ES or UN4112
Q24, 25	:2SD1266 (Q.P)
Q26	:2SC1740S (Q.R) or 2SC3311A (Q.R)
Q27, 28	:2SC2878 (B)

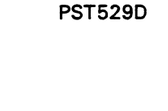
D1	:1SS131 or HSS104R
D2~13.26.27	
59~61, 67, 68	:1SS133 or HSS104
D13~30	:MA177
D31	:RD20JS (B) or HZS20S (B)
D32	:RD5.1JS (B2) or HZS5.1S (B2)
D33	:RD20JS (B) or HZS20S (B)
D49~54	:RD11ES (B2) or HZS11N (B2)
D49~54	:RD11ES (B2) or HZS11N (B2)
D55, 56, 58	:RD30ES (B) or HZS30N (B)
D57	:RD13ES (B2) or HZS13N (B2)
D62	:1SS131 or HSS104A
D63~66	:S5688B
D69	:RD3.9ES (B) or HZS3.9N (B)

X11-311X-XX

IC1, 3	:NJM4565D-D
IC2	:NJM4580D-D
IC4	:TC9163N

SIGNAL LINE
GND LINE
+B LINE
-B LINE

2SA1110
2SC2590



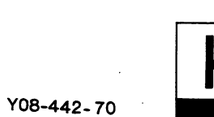
2SD1266

DTA124ES 2SA933S
DTC124ES 2SC1740S
UN4112

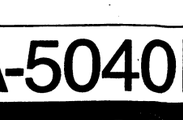
2SA1535
2SB941
2SC3944

NJM4558D
NJM4565D
NJM4565D-D

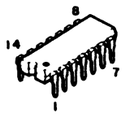
TA8409S



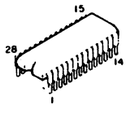
UPC7805HF



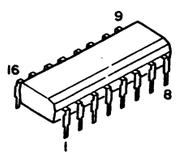
PST529D



LC4966



TC9163N



ON3134

2SC2632
2SC1845 2SC2878
2SC3203

2SA1694LB*5
2SC4467LB*5

UN4212
2SC3311A

UPC1237HA

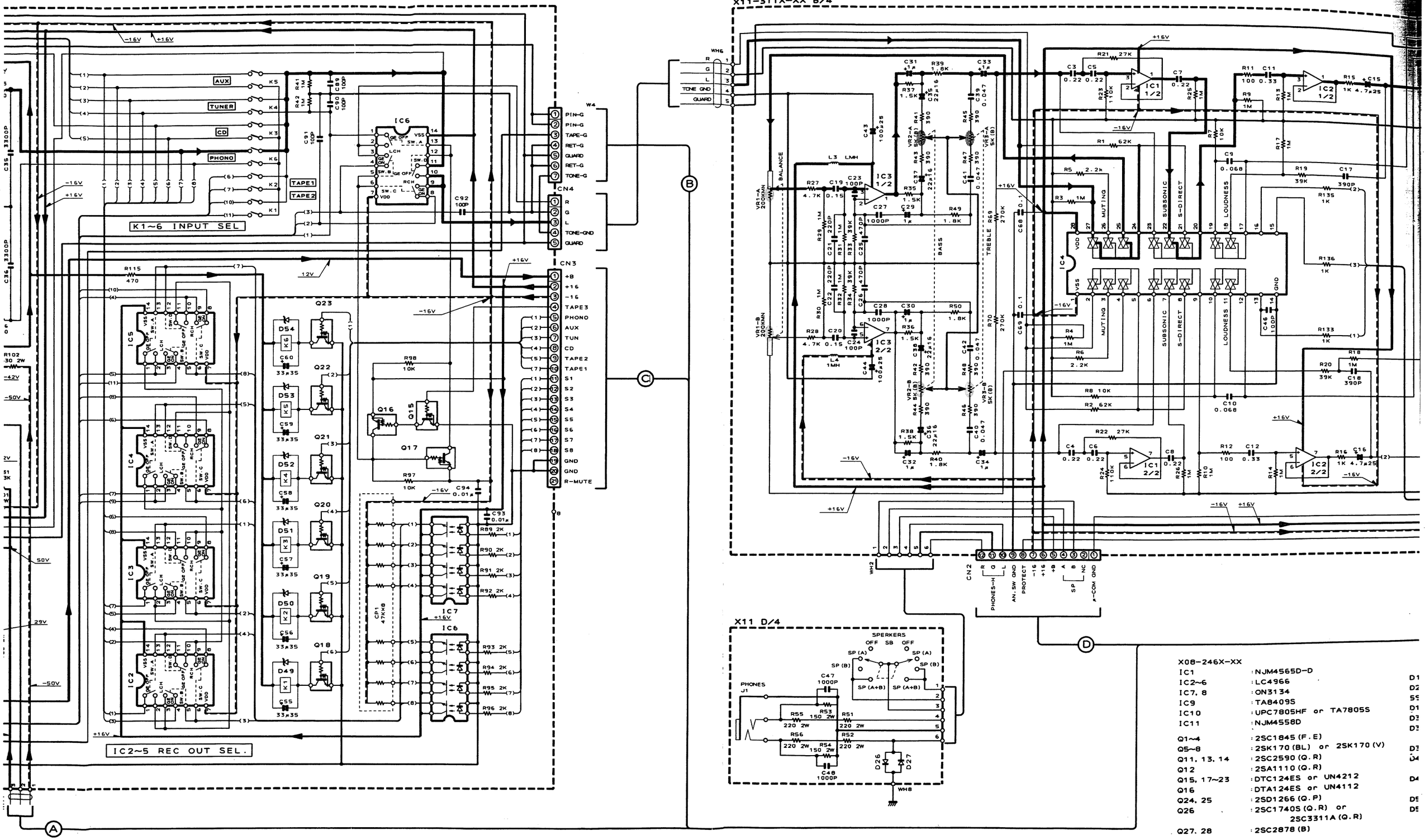
2SK170

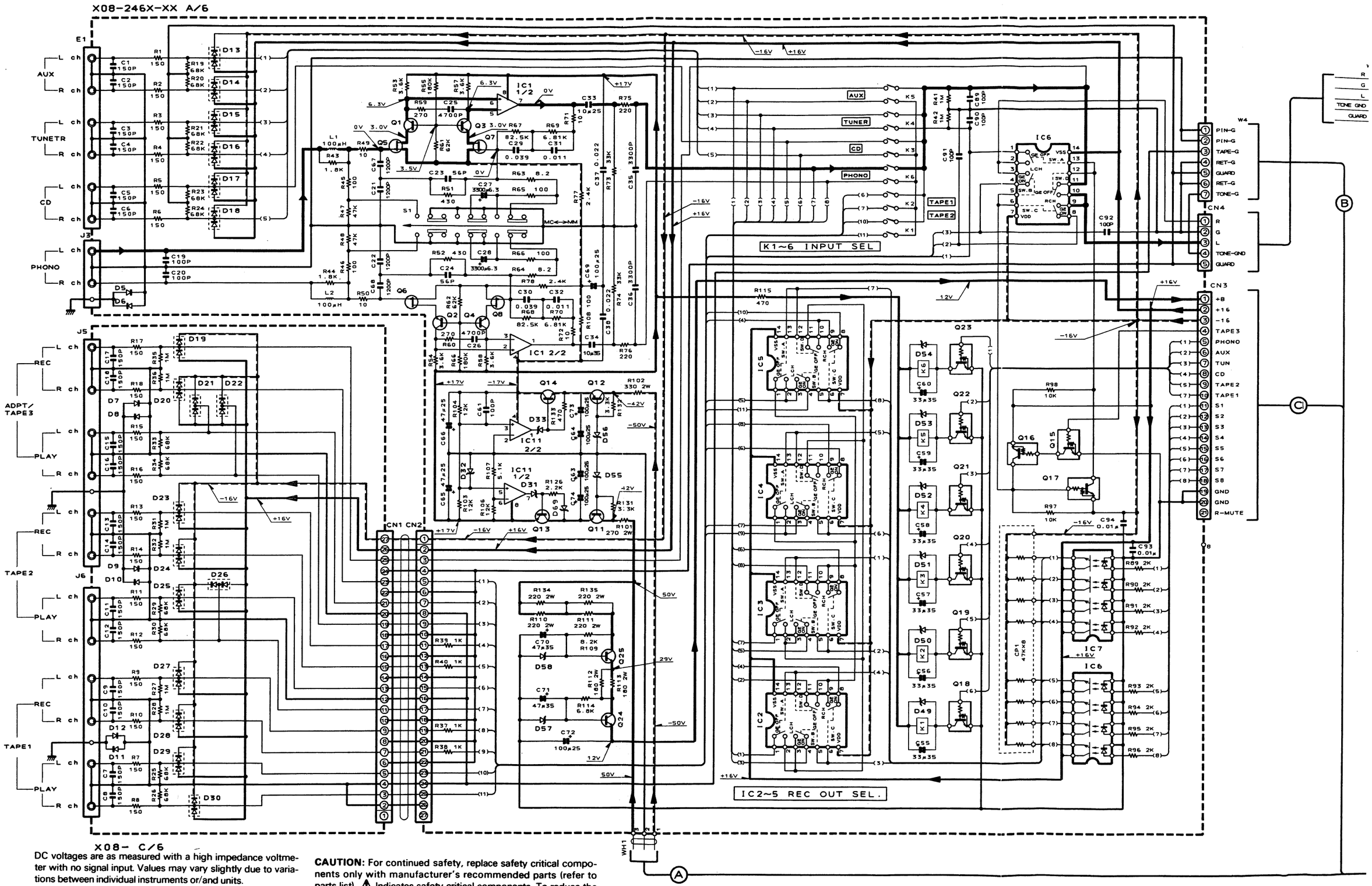
TA7805S

Y08-442-70

KA-5040R
KENWOOD

KENWOOD/Druck 7


X11-311X-XX 8/4
K1~6 INPUT SEL
IC2~5 REC OUT SEL.
AUX
TUNER
CD
PHONO
TAPE1
TAPE2
CN4
CN3
W4
WH6
R
G
L
TONE GND
GUARD
PIN-G
TAPE-G
RET-G
TONE-G
+B
+16
-16
TAPE3
PHONO
AUX
TUN
CD
TAPE2
TAPE1
S1
S2
S3
S4
S5
S6
S7
S8
GND
R-MUTE
IC1 1/2
IC1 2/2
IC2 1/2
IC2 2/2
IC3 1/2
IC3 2/2
IC4
MUTING
SUBSONIC
S-DIRECT
LOUDNESS
BASS
TREBLE
BALANCE
CN2
PHONES-H
AN. SW GND
PROTECT
SP
X11 D/4
SPERKERS
PHONES
J1
WH8
X08-246X-XX
IC1 : NJM4565D-D
IC2~6 : LC4966
IC7, 8 : ON3134
IC9 : TA8409S
IC10 : UPC7805HF or TA7805S
IC11 : NJM4558D
Q1~4 : 2SC1845 (F.E)
Q5~8 : 2SK170 (BL) or 2SK170 (V)
Q11, 13, 14 : 2SC2590 (Q.R)
Q12 : 2SA1110 (Q.R)
Q15, 17~23 : DTC124ES or UN4212
Q16 : DTA124ES or UN4112
Q24, 25 : 2SD1266 (Q.P)
Q26 : 2SC1740S (Q.R) or 2SC3311A (Q.R)
Q27, 28 : 2SC2878 (B)
2SA1123 2SA992 2SC2632
2SA1124 2SC1845 2SC2878
2SA733 (A) 2SC2631
2SA1694LB*5
2SC4467LB*5
UN4212
2SC3311A



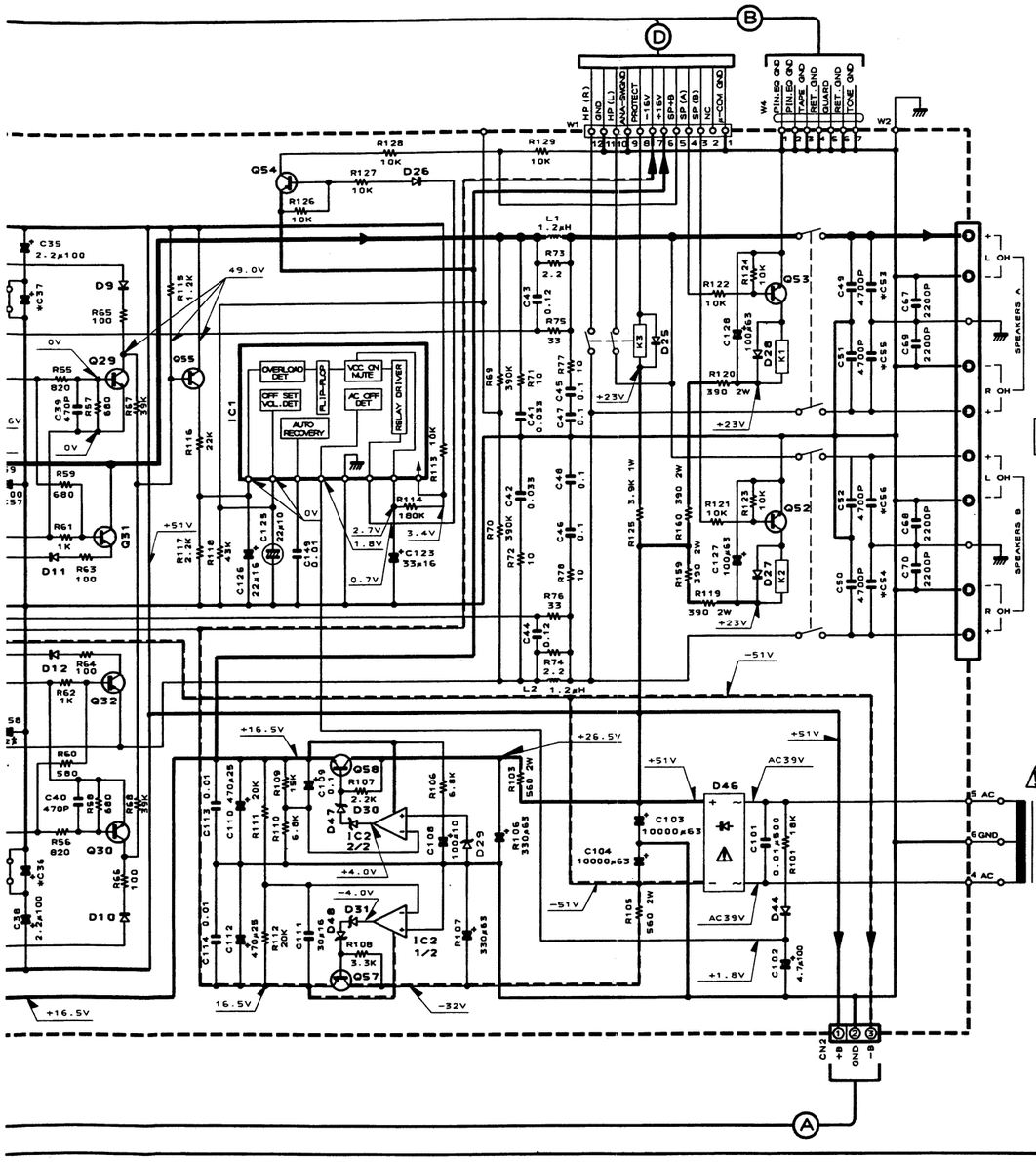
X08- C/6

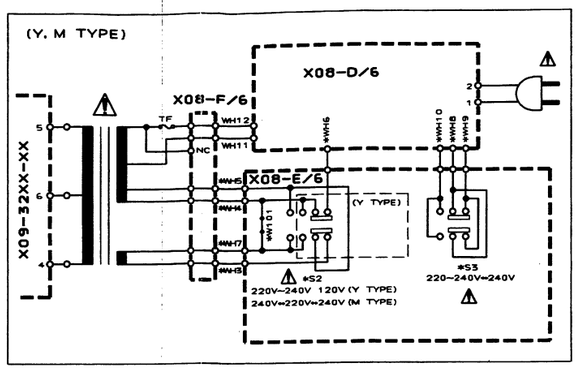
DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

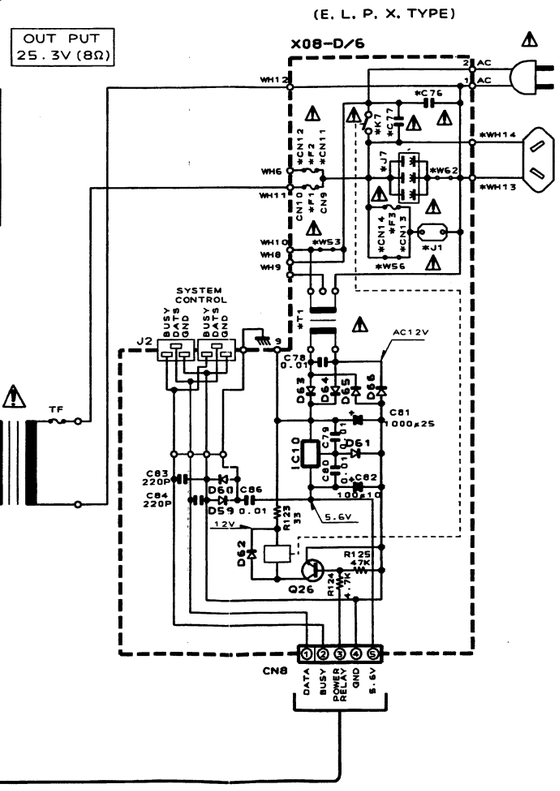
Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.







DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

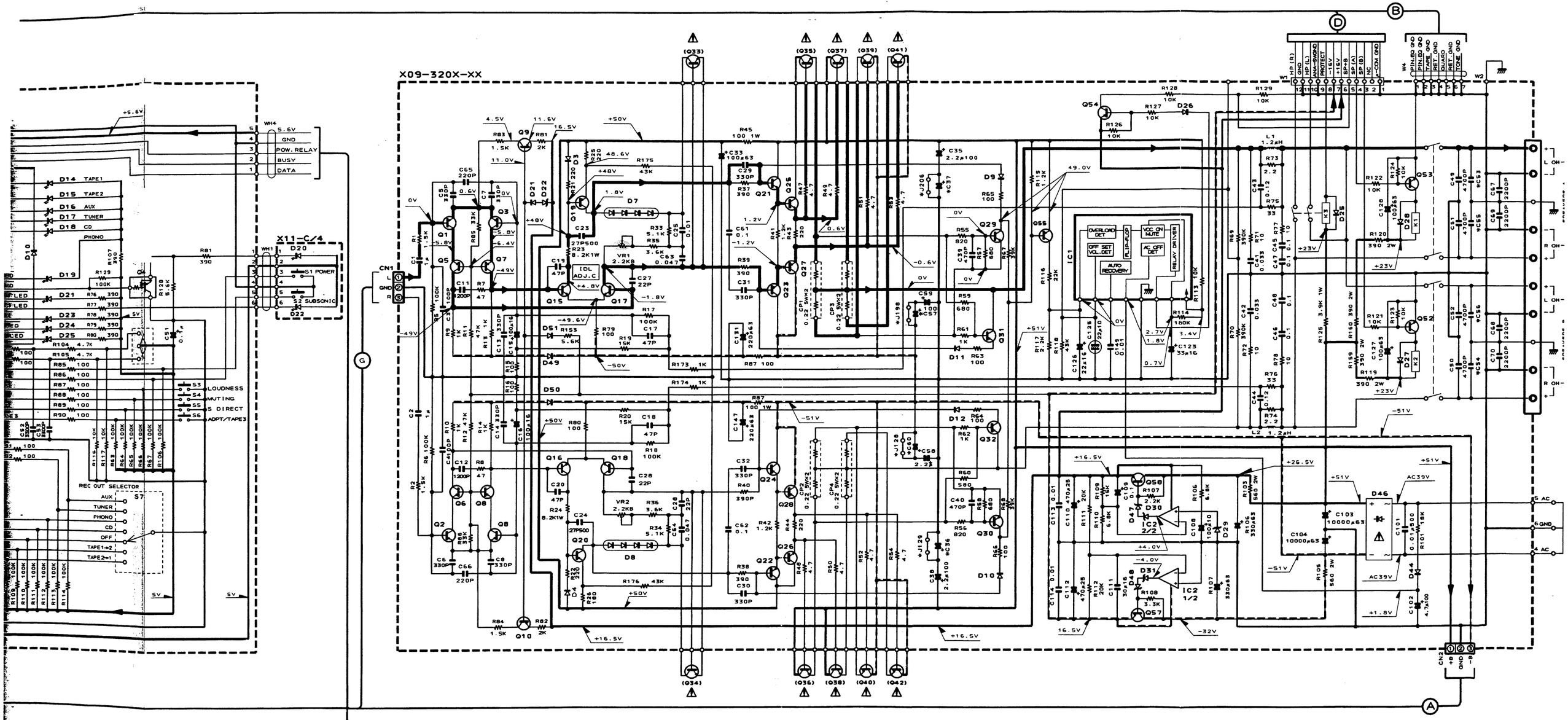
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

SIGNAL LINE
GND LINE
+B LINE
-B LINE

Y08-442-70

KA-5040R

KENWOOD



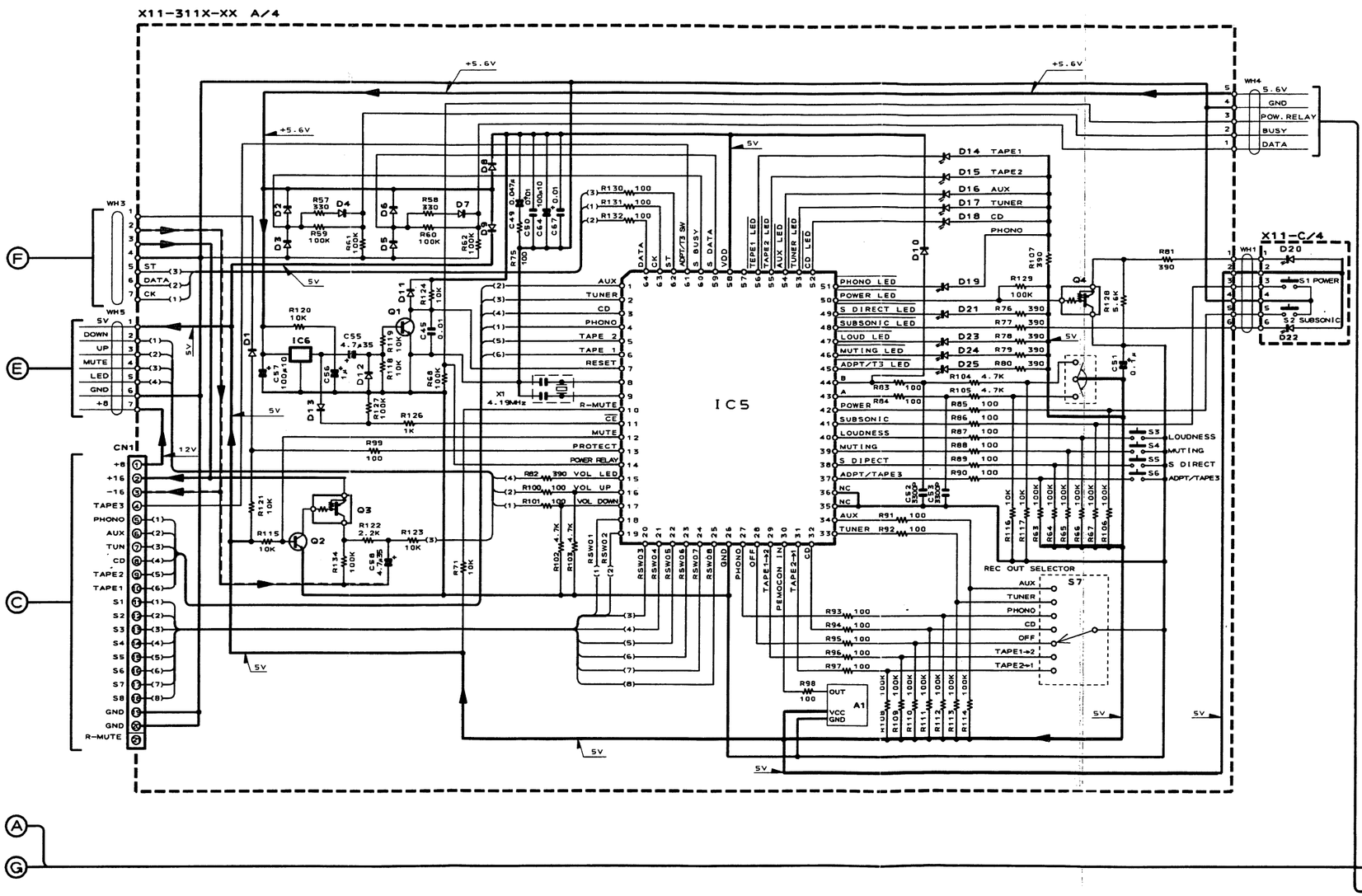
E)		
(Q, P)	D3, 4, 21, 26, 49, 50, 51	:HSS104 or 1SS133
933S (Q, R)	D7, 8	:MA270 (A)
, S)	D9~12, 25, 27, 28	:HSS104A or 1SS131
(R, S)	D22, 29	:RD5.1JS (B2) OR HZS5.1S (B2)
, S)	D30, 31, 47, 48	:RD6.8ES (B2) or HZS6.8N (B2)
, S)	D44	:S5688B
, E)	D46	:D5FB20*1
, P)		
P)		

X09-320X-XX

COUNTRY	ABB.	AREF.NO / UNIT NAME	C36, 37, 57, 60	J128, 129, 198, 206
EUROPE	E	2-73	NO	YES
EUROPE	Y			
GENERAL MARKET	M			
AUSTRALIA	X			
ENGLAND	T			
NORTHERN EUROPE	L	2-74		
CANADA	P	1-02	2.2μ100	NO

X08-246X-XX

COUNTRY	ABB.	AREF.NO / UNIT NAME	W53	W56	W62	W101	J1--	J7	F1	F2	F3	T1	CN11, 12	CN13, 14	C76, 77	W13~6, 8~10	WH7	S2
EUROPE	E	2-70	YES	NO	NO	NO	E03-0108-05	NO	F05-3121-05 T3.15A 250V	NO	F05-2525-05 T2.5V 250V	L01-7653-05	NO	YES	C91-1439-05 or C91-1443-05	NO	NO	NO
CANADA	P	1-01	YES	NO	YES	NO	NO	E03-0111-05	F04-5022-05 5A 125V	NO	NO	L01-7651-05	NO	NO	C91-0971-05	NO	NO	NO
EUROPE	Y	2-91	NO	NO	YES	YES	NO	E03-0111-05	F05-3121-05 T3.15A 250V	F05-3121-05 T3.15A 250V	NO	L01-7653-05	YES	NO	C91-1421-05	YES	NO	052-0001-05 S3
GENERAL MARKET	M	0-21	NO	YES	NO	NO	E03-0108-05	NO	F05-3121-05 T3.15A 250V	F05-3121-05 T3.15A 250V	NO	L01-7653-05	YES	NO	C91-1421-05	YES	YES	S31-2322-05 S3
AUSTRALIA	X	0-71	YES	NO	NO	NO	NO	NO	F05-3121-05 T3.15A 250V	NO	NO	L01-7657-05	NO	NO	C91-1421-05	NO	NO	NO
ENGLAND	T	0-51	YES	YES	NO	NO	E03-0109-05	NO	F05-3121-05 T3.15A 250V	NO	NO	L01-7657-05	NO	NO	C91-1421-05	NO	NO	NO



X11-311X-XX

IC5	: μPD75104GF-778
IC6	: PST529D
Q1. 2	: 2SC17405 (Q. P) or 2SC3311A (Q. R)
Q3. 4	: DTA124ES OR UN4112
D1	: 1SS131 or HSS104A
D2~13. 26. 27	: 1SS133 or HSS104
D14~25	: B30-1291-05

X09-320X-XX

IC1	: UPC1237HA
IC2	: NJM4565D
Q1~8. 31. 32. 55	: 2SA992 (F. E)
Q9. 10. 54	: 2SA733 (A) (Q. P) or 2SA933S (Q. R)
Q15~18	: 2SC2632 (R. S)
Q19. 20	: S12SA1124 (R. S)
Q21. 22	: 2SC2631 (R. S)
Q23. 24	: 2SA1123 (R. S)
Q25. 26	: 2SC3944 (R. S)
Q27. 28	: 2SA1535 (R. S)
Q29. 30. 52. 53	: 2SC1845 (F. E)
Q56	: 2SD1266 (Q. P)
Q57	: 2SB941 (Q. P)
D3. 4. 21. 26. 49. 50. 51	: HSS104 or 1SS133
D7. 8	: MA270 (A)
D9~12. 25. 27. 28	: HSS104A or 1SS131
D22. 29	: RD5. 1JS (B2) OR HZS5. 1S (B2)
D30. 31. 47. 48	: RD6. 8ES (B2) or HZS6. 8N (B2)
D44	: S56888
D46	: D5FB20*1

X09-320X-XX

COUNTRY	ABB.	UNIT NAME \ AREF. NO	C36. 37. 57. 60	J128. 129. 198. 206
EUROPE	E	2~73	NO	YES
EUROPE	Y			
GENERAL MARKET	M			
AUSTRALIA	X			
ENGLAMD	T			
NORTHERN EUROPE	L	2~74		
CANADA	P	1~02	2.2±100	NO

X08-246X-XX

COUNTR
EUROPE
CANADA
EUROPE
GENERAL MA
AUSTRAL
ENGLAM

KA-5040R

PARTS LIST

No. 2

× New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
				PRE-AMPLIFIER UNIT (X08-246X-XX)		
C1 -18			CF92FV1H151K	MF 150PF K		
C19 ,20			CF92FV1H101K	MF 100PF K		
C21 ,22			CF92FV1H122J	MF 1200PF J		
C24 ,24			CC45FSL1H560J	CERAMIC 56PF J		
C25 ,26			CF92FV1H472J	MF 4700PF J		
C27 ,28			C90-1951-05	ALMINIUM ELECTROLYTIC C.		
C29 ,30			CF92FV1H393J	MF 0.039UF J		
C31 ,32		*	CF92FV1H113J	MF 0.011UF J		
C33 ,34			C90-1920-05	ELECTRO 10UF 25WV		
C35 ,36			CF92FV1H332J	MF 3300PF J		
C37 ,38			CF92FV1H223J	MF 0.022UF J		
C55 -60			CE04KW1V330M	ELECTRO 33UF 35WV		
C61 ,64			CF92FV1H101K	MF 100PF K		
C63 ,64			CE04KW1E101M	ELECTRO 100UF 25WV		
C65 ,66			CE04KW1E470M	ELECTRO 47UF 25WV		
C67 ,68			CF92FV1H122J	MF 1200PF J		
C69 ,			CE04KW1E101M	ELECTRO 100UF 25WV		
C70			CE04KW1V470M	ELECTRO 47UF 35WV		
C71			CE04KW1E470M	ELECTRO 47UF 25WV		
C72 -75			CE04KW1E101M	ELECTRO 100UF 25WV		
C76 ,77			C91-0971-05	FILM 0.01UF 250WV	P	
C76 ,77			C91-1421-05	FILM 0.01UF 250AC	EYMXTL	
C78 -80			CK45FF1H103Z	CERAMIC 0.010UF Z		
C81			CE04KW1E102M	ELECTRO 1000UF 25WV		
C82			CE04KW1A101M	ELECTRO 100UF 10WV		
C83 ,84			CC45FSL1H221J	CERAMIC 220PF J		
C85			CE04KW1V100M	ELECTRO 10UF 35WV	EML	
C86			CK45FF1H103Z	CERAMIC 0.010UF Z	T	
C87			CK45FF1H473Z	CERAMIC 0.047UF Z		
C89 -92			CF92FV1H101K	MF 100PF K		
C93 ,94			CF92FV1H103J	MF 0.010UF J		
J1			E03-0108-05	AC OUTLET	EML	
J1			E03-0109-05	AC OUTLET	T	
J2			E11-0188-05	MINIATURE PHONE JACK SYSTEM		
J3			B13-0294-05	PHONO JACK PHONO		
J4 -6			B13-0634-05	PHONO JACK I/O TERMINAL		
J7			E03-0111-05	AC OUTLET	PY	
F1			F04-5022-05	FUSE (UL) (125V 5A UL)	P	
F1			F05-3121-05	FUSE (SEMKO) (250V T3.15A)	EXTL	

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

⚠ indicates safety critical components.

KA-5040R

PARTS LIST

No. 4

× New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
D59 -61			HSS104	DIODE		
D59 -61			1SS133	DIODE		
D62			HSS104A	DIODE		
D62			1SS131	DIODE		
D63 -66			S5688B	DIODE		
D67 ,68			HSS104	DIODE		
D67 ,68			1SS133	DIODE		
IC1			NJM4565D-D	IC(OP AMP X2)		
IC2 -6			LC4966	IC(CMOS LOGIC BILATERAL SW)		
IC7 ,8		*	ON3134	IC(OPTICAL ISOLATOR)		
IC9			TA8409S	IC(MOTOR CONTROL)		
IC10			TA7805S	IC(VOLTAGE REGULATOR/ +5V)		
IC10			UPC7805HF	IC(VOLTAGE REGULATOR/ +5V)		
IC11			NJM4558D	IC(OP AMP X2)		
Q1 -4			2SC1740S(Q,R)	TRANSISTOR		
Q1 -4			2SC3311A(Q,R)	TRANSISTOR		
Q5 -8			2SK170(BL)	FET		
Q5 -8			2SK170(V)	FET		
Q11			2SC2590(Q,R)	TRANSISTOR		
Q12			2SA1110(Q,R)	TRANSISTOR		
Q13 ,14			2SC2590(Q,R)	TRANSISTOR		
Q15			DTC124ES	DIGITAL TRANSISTOR		
Q15			UN4212	DIGITAL TRANSISTOR		
Q16			DTA124ES	DIGITAL TRANSISTOR		
Q16			UN4112	DIGITAL TRANSISTOR		
Q17 -23			DTC124ES	DIGITAL TRANSISTOR		
Q17 -23			UN4212	DIGITAL TRANSISTOR		
Q24 ,25			2SD1266(Q,P)	TRANSISTOR		
Q26			2SC1740S(Q,R)	TRANSISTOR		
Q26			2SC3311A(Q,R)	TRANSISTOR		
Q27 ,28			2SC2878(B)	TRANSISTOR		
				AUDIO UNIT (X09-320X-XX)		
C1 ,2			CF92FV1H105J	MF 1.0UF J		
C3 ,4			CF92FV1H101K	MF 100PF K		
C5 -8			CF92FV1H331K	MF 330PF K		
C9 ,10			CF92FV1H105J	MF 1.0UF J		
C11 ,12			CF92FV1H122J	MF 1200PF J		
C13 ,14			CF92FV1H331K	MF 330PF K		
C15 ,16			C90-1917-05	ELECTRO 100UF 16WV		
C17 -20			CC45FSL1H470J	CERAMIC 47PF J		
C23 ,24			CC45FSL2H270J	CERAMIC 27PF J		
C25 ,26			CF92FV1H103J	MF 0.010UF J		
C27 ,28			CC45FSL1H220J	CERAMIC 22PF J		
C29 -32			CF92FV1H331K	MF 330PF K		
C33			CE040W1J101M	ELECTRO 100UF 6.3WV	EYMXTL	
C35			CE04KW2A2R2M	ELECTRO 2.2UF 100WV	P	
C35 -38			CE04KW2A2R2M	ELECTRO 2.2UF 100WV	EYMXTL	
C38			CE04KW2A2R2M	ELECTRO 2.2UF 100WV		
C39 ,40			CF92FV1H471J	MF 470PF J		
C41 ,42			CF92FV1H333J	MF 0.033UF J		
C43 ,44			CF92FV1H124J	MF 0.12UF J		
C45 -48			CF92FV1H104J	MF 0.10UF J		
C49 -52			CF92FV1H472J	MF 4700PF J		
C53 -56			CF92FV1H561J	MF 560PF J		

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

⚠ indicates safety critical components.

KA-5040R

PARTS LIST

No. 1

× New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
				KA-5040R		
601	1A	*	A01-2905-01	METALLIC CABINET		
602	2A	*	A60-0101-11	PANEL ASSY		
605	1B	*	X94-1000-00	REMOTE CONTROL ASSY		
606	1B		A09-0115-13	BATTERY COVER		
609	3B	*	B01-0482-01	PANEL ESCUTCHEON		
612	2A		B43-0287-04	KENWOOD BADGE		Y
-			B46-0094-03	WARRANTY CARD		Y
-			B46-0095-03	WARRANTY CARD		X
-			B46-0096-23	WARRANTY CARD		X
-			B46-0121-03	WARRANTY CARD	P	
-			B46-0122-13	WARRANTY CARD	EL	
-			B46-0143-13	WARRANTY CARD (PRESET220-240)	T	
-		*	B58-0513-04	CAUTION CARD	Y	
-			B60-0555-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-0556-00	INSTRUCTION MANUAL (FRENCH)	EPL	
-		*	B60-0557-00	INSTRUCTION MANUAL (CHINESE)	M	
-		*	B60-0558-00	INSTRUCTION MANUAL (GE,DU,IT)	EL	
-		*	B60-0665-00	INSTRUCTION MANUAL (SPANISH)	M	
613	3C	*	D21-1658-03	EXTENSION SHAFT		
615	1B		E03-0115-05	AC PLUG ADAPTER	M	
616	1D		E30-0459-05	AC POWER CORD	EML	
616	1D		E30-0812-05	AC POWER CORD	Y	
616	1D		E30-0974-05	AC POWER CORD	P	
616	1D		E30-1341-05	AC POWER CORD	X	
616	1D		E30-1416-05	AC POWER CORD	T	
618	3C	*	E35-0147-05	FLAT CABLE (X08CN1-X08CN2) 27P		
619	2B,3B	*	E35-0148-05	FLAT CABLE (X08CN3-X11CN1) 21P		
-			E03-0114-05	AC OUTLET	X	
620	2A	*	G11-1372-04	SOFT TAPE		
-		*	H50-0126-04	ITEM CARTON CASE		
-		*	H10-5166-02	POLYSTYRENE FOAMED FIXTURE (L)		
-		*	H10-5167-02	POLYSTYRENE FOAMED FIXTURE (R)		
-			H25-0225-04	PROTECTION BAG (850X450XO.03)	EPYMXL	
-			H25-0232-04	PROTECTION BAG (235X350XO.03)	EPYMXL	
-		*	H25-0651-04	PROTECTION BAG (0232 PRINTED)	T	
-		*	H25-0654-04	PROTECTION BAG (0225 PRINTED)	T	
624	3C		J02-1072-05	FOOT		
625	2D		J19-0581-05	UNIT HOLDER		
626	2B		J19-3328-15	UNIT HOLDER		
629	1D		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
630	3B		K29-3405-04	KNOB CARTRIDGE		
631	2A	*	K29-4210-03	KNOB POWER		
632	3A	*	K29-4213-04	KNOB ASSY MASTER VOLUME		
633	3A	*	K29-4212-04	KNOB INPUT SELECTOR		
634	3A	*	K29-4216-04	KNOB TONE,BAL,RECOUT SEL		
640	1C	*	L07-0360-05	POWER TRANSFORMER	E	
640	1C	*	L07-0361-05	POWER TRANSFORMER	P	
640	1C	*	L07-0363-05	POWER TRANSFORMER	YM	
640	1C	*	L07-0364-05	POWER TRANSFORMER	XT	
640	1C	*	L07-0464-05	POWER TRANSFORMER	L	

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

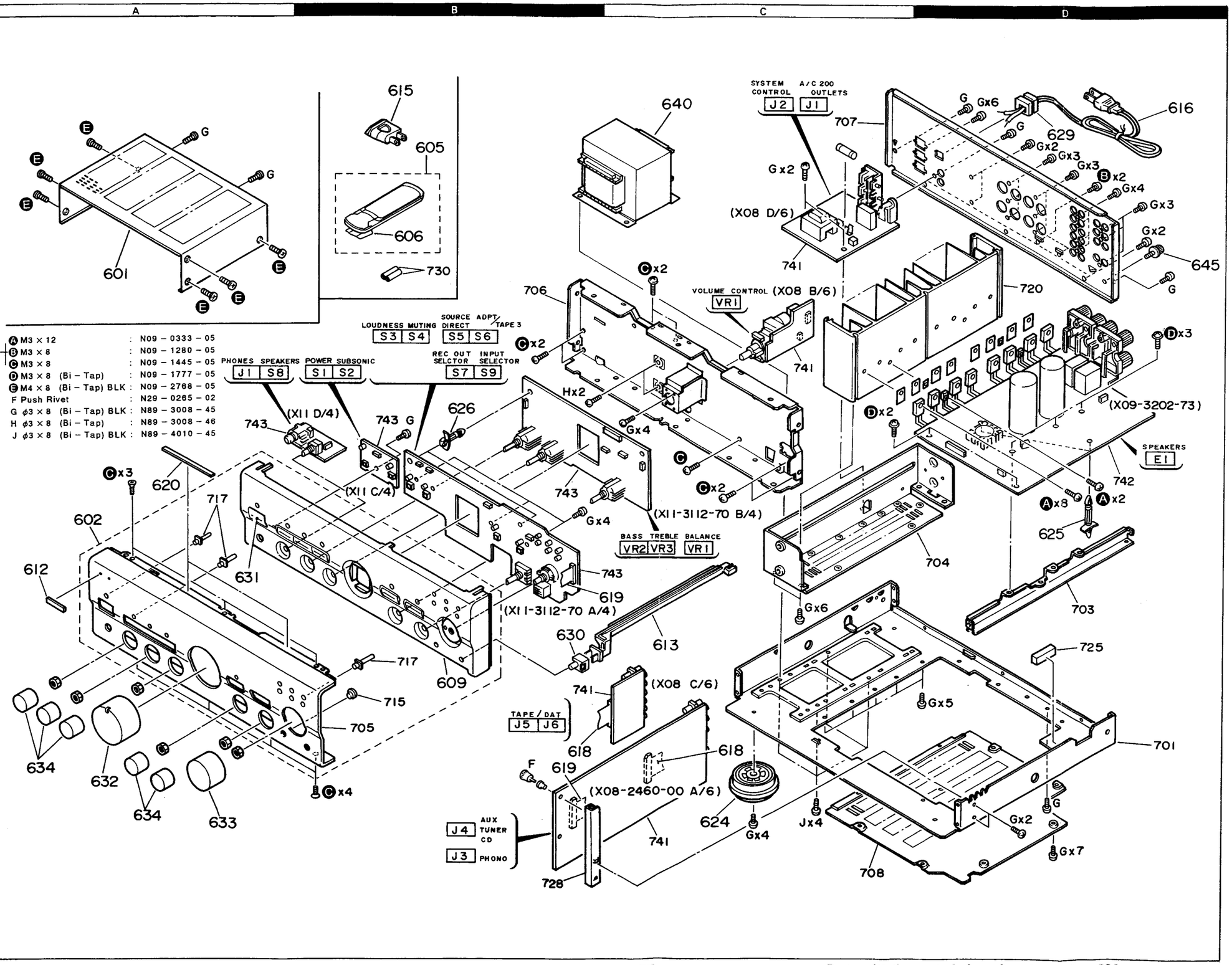
⚠ indicates safety critical components.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
F1 ,2			F05-3121-05	FUSE (SEMKO) (250V T3.15A)	YM	
F3			F05-2525-05	FUSE (SEMKO) (250V T2.5A)	EL	
CN9 -12			J13-0075-05	FUSE CLIP	YM	
CN9 ,10			J13-0075-05	FUSE CLIP	EPXTL	
CN13,14			J13-0075-05	FUSE CLIP	EL	
L1 ,2			L40-1011-47	SMALL FIXED INDUCTOR(100UH,K)		
T1			L01-7651-05	POWER TRANSFORMER	P	
T1			L01-7653-05	POWER TRANSFORMER	EYML	
T1			L01-7657-05	POWER TRANSFORMER	XT	
CP1			R90-0804-05	MULTI-COMP 47KX8 J 1/4W		
R67 ,68			RN14BK2C8252FTS	RN 82.5K F 1/6W		
R69 ,70			RN14BK2C6811FTS	RN 6.81K F 1/6W		
R101			RS14DB3D271JTE	FL-PROOF RS 270 J 2W		
R102			RS14DB3D331JTE	FL-PROOF RS 330 J 2W		
R108			RD14AB2E101JTS	FL-PROOF RD 100 J 1/4W		
R109			RD14AB2E822JTS	FL-PROOF RD 8.2K J 1/4W		
R110,111			RS14DB3D221JTE	FL-PROOF RS 220 J 2W		
R112,113			RS14DB3D181JTE	FL-PROOF RS 180 J 2W		
R114		*	RD14AB2E682JTS	FL-PROOF RD 6.8K J 1/4W		
R115			RD14AB2E471JTS	FL-PROOF RD 470 J 1/4W		
R116,117			RD14AB2E100JTS	FL-PROOF RD 10 J 1/4W		
R123			RD14AB2E330JTS	FL-PROOF RD 33 J 1/4W		
R126			RD14AB2E222JTS	FL-PROOF RD 2.2K J 1/4W		
R131,132			RD14AB2E332JTS	FL-PROOF RD 3.3K J 1/4W		
R133			RD14AB2E471JTS	FL-PROOF RD 470 J 1/4W		
R134,135			RS14DB3D221JTE	FL-PROOF RS 220 J 2W		
VR1		*	R29-5059-05	POTENTIOMETER VOLUME CONTROL		
K1 -6			S51-2089-05	MAGNETIC RELAY		
K7			S51-1052-05	MAGNETIC RELAY	EXTL	
K7			S76-0002-05	MAGNETIC RELAY	PYM	
S1			S40-4036-05	PUSH SWITCH CARTRIDGE		
S2			S31-2322-05	SLIDE SWITCH VOLTAGE SELECT	M	
S2			S62-0001-05	SLIDE SWITCH VOLTAGE SELECT	Y	
S3			S31-2131-05	SLIDE SWITCH VOLTAGE SELECT	YM	
D1 ,2			HSS104	DIODE		
D1 ,2			1SS133	DIODE		
D5 -12			HSS104	DIODE		
D5 -12			1SS133	DIODE		
D13 -30			MA177	DIODE		
D31			HZS20S(B)	ZENER DIODE		
D31			RD20JS(B)	ZENER DIODE		
D32			HZS5.1S(B2)	ZENER DIODE		
D32			RD5.1JS(B2)	ZENER DIODE		
D33			HZS20S(B)	ZENER DIODE		
D33			RD20JS(B)	ZENER DIODE		
D49 -54			HZS11N(B2)	ZENER DIODE		
D49 -54			RD11ES(B2)	ZENER DIODE		
D55 ,56			HZS30N(B)	ZENER DIODE		
D55 ,56			RD30ES(B)	ZENER DIODE		
D57			HZS13N(B2)	ZENER DIODE		
D57			RD13ES(B2)	ZENER DIODE		
D58			HZS30N(B)	ZENER DIODE		
D58			RD30ES(B)	ZENER DIODE		

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

⚠ indicates safety critical components.

EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

* New Parts

Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Telle ohne **Parts No.** werden nicht geliefert

No. 7

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C9 ,10			CF92FV1H683J	MF 0.068UF J		
C11 ,12			CF92FV1H334J	MF 0.33UF J		
C15 ,16		*	C90-1886-05	ELECTRO 4.7UF 25WV		
C17 ,18			CF92FV1H391K	MF 390PF K		
C19 ,20			CF92FV1H154J	MF 0.15UF J		
C21 ,22			CF92FV1H221K	MF 220PF K		
C23 ,24			CF92FV1H101K	MF 100PF K		
C25 ,26			CF92FV1H471J	MF 470PF J		
C27 ,28			CF92FV1H102J	MF 1000PF J		
C29 -34			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C35 -38			CE04KW1C220M	ELECTRO 22UF 16WV		
C39 -42			CF92FV1H473J	MF 0.047UF J		
C43 ,44			CE04KW1E101M	ELECTRO 100UF 25WV		
C45			CK45FF1H103Z	CERAMIC 0.010UF Z		
C46			CC45FSL1H101J	CERAMIC 100PF J		
C47 ,48			CF92FV1H102J	MF 1000PF J		
C49			C90-1826-05	BACKUP 0.047F 5.5WV		
C50			CK45FF1H103Z	CERAMIC 0.010UF Z		
C51			CE04KW1H0R1M	ELECTRO 0.1UF 50WV		
C52 ,53			CK45FB1H332K	CERAMIC 3300PF K		
C55			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C56			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C57			CE04KW1A101M	ELECTRO 100UF 10WV		
C58			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C64			CE04KW1A101M	ELECTRO 100UF 10WV		
C67			CK45FF1H103Z	CERAMIC 0.010UF Z		
C68 ,69			CF92FV1H104J	MF 0.10UF J		
J1		*	E11-0208-05	PHONE JACK HEAD PHONES		
L3 ,4			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)		
X1			L78-0267-05	RESONATOR 4.19MHz		
R51 ,52			RS14DB3D221JTE	FL-PROOF RS 220 J 2W		
R53 ,54			RS14DB3D151JTE	FL-PROOF RS 150 J 2W		
R55 ,56			RS14DB3D221JTE	FL-PROOF RS 220 J 2W		
VR1		*	R06-5190-05	POTENTIOMETER BALANCE		
VR2 ,3		*	R06-2025-05	POTENTIOMETER BASS,TREBLE		
S1 -6			S40-1064-05	PUSH SWITCH		
S7		*	S60-0010-05	ROTARY SWITCH REC OUT SELECT		
S8			S29-2035-05	ROTARY SWITCH SPEAKERS		
S9		*	T99-0521-05	ROTARY ENCODER INPUT SELECTOR		
D1			HSS104A	DIODE		
D1			1SS131	DIODE		
D2 -13			HSS104	DIODE		
D2 -13			1SS133	DIODE		
D26 ,27			HSS104	DIODE		
D26 ,27			1SS133	DIODE		
IC1			NJM4565D-D	IC(OP AMP X2)		
IC2			NJM4580D-D	IC		
IC3			NJM4565D-D	IC(OP AMP X2)		
IC4			TC9163N	IC(BILATERAL SWITCH X16)		
IC5		*	UPD75104GF-778	IC(MICROPROCESSOR)		
IC6			PST529D	IC(SYSTEM RESET)		
Q1 ,2			2SC1740S(Q,R)	TRANSISTOR		

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

⚠ indicates safety critical components

* New Parts

Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Telle ohne **Parts No.** werden nicht geliefert.

No.8

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
Q1 ,2			2SC3311A(Q,R)	TRANSISTOR		
Q3 ,4			DTA124ES	DIGITAL TRANSISTOR		
Q3 ,4			UN4112	DIGITAL TRANSISTOR		
A1			W02-1046-05	ELECTRIC CIRCUIT MODULE		

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

⚠ indicates safety critical components

※ New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert

No. 5

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格			Destination 仕向	Remarks 備考
C57 -60			CE04KW2A2R2M	ELECTRO	2.2UF	100WV	P	
C58 ,59			CE04KW2A2R2M	ELECTRO	2.2UF	100WV	EYMXTL	
C61 ,62			CF92FV1H104J	MF	0.10UF	J		
C63 ,64			CF92FV1H473J	MF	0.047UF	J		
C65 ,66			CF92FV1H221K	MF	220PF	K		
C67 -70			CF92FV1H222J	MF	2200PF	J		
C101			CK45FE2H103P	CERAMIC	0.010UF	P		
C102			CE04KW2A4R7M	ELECTRO	4.7UF	100WV		
C103,104			C90-1822-05	ELECTRO	10000UF	63WV		
C106,107			CE04KW1J331M	ELECTRO	330UF	63WV		
C108			CE04KW1A101M	ELECTRO	100UF	10WV		
C109			CF92FV1H104J	MF	0.10UF	J		
C110			CE04KW1E471M	ELECTRO	470UF	25WV		
C111			CF92FV1H104J	MF	0.10UF	J		
C112			CE04KW1E471M	ELECTRO	470UF	25WV		
C113,114			CF92FV1H103J	MF	0.010UF	J		
C123			CE04KW1C330M	ELECTRO	33UF	16WV		
C125			C90-1333-05	NP-ELEC	22UF	10WV		
C126			CE04KW1C220M	ELECTRO	22UF	16WV		
C127,128			CE04DW1J101M	ELECTRO	100UF	63WV		
C130			CF92FV1H105J	MF	1.0UF	J		
C131			CE04KW1J221M	ELECTRO	220UF	63WV		
C147			CE04KW1J221M	ELECTRO	220UF	63WV		
C149			CK45FF1H103Z	CERAMIC	0.010UF	Z		
E1			E20-0839-15	SCREW TERMINAL BOARD SPEAKERS			EPYMXT	
E1			E20-0840-15	SCREW TERMINAL BOARD SPEAKERS			L	
-			J11-0098-05	WIRE CLAMPER				
L1 ,2			L39-0080-15	PHASE-COMPENSATION COIL				
CP1 -4			R90-0187-05	MULTI-COMP	0.22X2	K 5W		
R21 ,22			RD14AB2E221JTS	FL-PROOF RD	220	J 1/4W		
R23 ,24			RS14DB3A822JTE	FL-PROOF RS	8.2K	J 1W		
R25 ,26			RD14AB2E181JTS	FL-PROOF RD	180	J 1/4W		
R37 -40			RD14AB2E391JTS	FL-PROOF RD	390	J 1/4W		
R41 ,42			RD14AB2E122JTS	FL-PROOF RD	1.2K	J 1/4W		
R43 ,44			RD14AB2E221JTS	FL-PROOF RD	220	J 1/4W		
R45		*	RS14GB3A101JKW	FL-PROOF RS	100	J 1W		
R47 -50			RD14AB2E4R7JTS	FL-PROOF RD	4.7	J 1/4W		
R51			RD14GB2E4R7JTS	FL-PROOF RD	4.7	J 1/4W		
R52 -54			RD14AB2E4R7JTS	FL-PROOF RD	4.7	J 1/4W		
R55 ,56		*	RD14AB2E821JTS	FL-PROOF RD	820	J 1/4W		
R57 -60			RD14AB2E681JTS	FL-PROOF RD	680	J 1/4W		
R61 ,62			RD14AB2E102JTS	FL-PROOF RD	1.0K	J 1/4W		
R63 -66			RD14AB2E101JTS	FL-PROOF RD	100	J 1/4W		
R71 ,72		*	RS14GB3A100JKW	FL-PROOF RS	10	J 1W		
R73 ,74			RD14AB2E2R2JTS	FL-PROOF RD	2.2	J 1/4W		
R75 ,76			RD14AB2E330JTS	FL-PROOF RD	33	J 1/4W		
R77 ,78		*	RS14GB3A100JKW	FL-PROOF RS	10	J 1W		
R79 ,80			RD14AB2E101JTS	FL-PROOF RD	100	J 1/4W		
R87 ,88		*	RS14GB3A101JKW	FL-PROOF RS	100	J 1W		
R103			RS14DB3D561JTE	FL-PROOF RS	560	J 2W		
R105			RS14DB3D561JTE	FL-PROOF RS	560	J 2W		
R119,120			RS14DB3D391JTE	FL-PROOF RS	390	J 2W		
R125			RS14DB3A392JTE	FL-PROOF RS	3.9K	J 1W		

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

⚠ indicates safety critical components

※ New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

No. 6

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格			Destination 仕向	Remarks 備考
R159,160			RS14DB3D391JTE	FL-PROOF RS	390	J 2W		
R173,174			RN14BK2E1001FTS	RN	1.00K	F 1/4W		
VR1 ,2			R12-1085-05	TRIM POT.	2.2K			
K1 ,2			S51-2096-05	MAGNETIC RELAY				
K3			S51-2090-05	MICRO SWITCH				
D3 ,4			HSS104	DIODE				
D3 ,4			1SS133	DIODE				
D7 ,8			MA27Q(A)	VARISTOR				
D9 -12			HSS104A	DIODE				
D9 -12			1SS131	DIODE				
D21			HSS104	DIODE				
D21			1SS133	DIODE				
D22			HZS5.1S(B2)	ZENER DIODE				
D22			RD5.1JS(B2)	ZENER DIODE				
D25			HSS104A	DIODE				
D25			1SS131	DIODE				
D26			HSS104	DIODE				
D26			1SS133	DIODE				
D27 ,28			HSS104A	DIODE				
D27 ,28			1SS131	DIODE				
D29			HZS5.1S(B2)	ZENER DIODE				
D29			RD5.1JS(B2)	ZENER DIODE				
D30 ,31			HZS6.8N(B2)	ZENER DIODE				
D30 ,31			RD6.8ES(B2)	ZENER DIODE				
D44			S5688B	DIODE				
D46			D5FB20*1	DIODE				
D47 ,48			HZS6.8N(B2)	ZENER DIODE				
D47 ,48			RD6.8ES(B2)	ZENER DIODE				
D49 -51			HSS104	DIODE				
D49 -51			1SS133	DIODE				
IC1			UPC1237HA	IC(POWER AMP)				
IC2			NJM4565D	IC(OP AMP X2)				
Q1 -8			2SA992(F,E)	TRANSISTOR				
Q9 ,10			2SA733(A)(Q,P)	TRANSISTOR				
Q9 ,10			2SA933S(Q,R)	TRANSISTOR				
Q15 -18			2SC2632(R,S)	TRANSISTOR				
Q19 ,20			2SA1124(R,S)	TRANSISTOR				
Q21 ,22			2SC2631(R,S)	TRANSISTOR				
Q23 ,24			2SA1123(R,S)	TRANSISTOR				
Q25 ,26			2SC3944(R,S)	TRANSISTOR				
Q27 ,28			2SA1535(R,S)	TRANSISTOR				
Q29 ,30			2SC1845(F,E)	TRANSISTOR				
Q31 ,32			2SA992(F,E)	TRANSISTOR				
Q52 ,53			2SC1845(F,E)	TRANSISTOR				
Q54			2SA733(A)(Q,P)	TRANSISTOR				
Q54			2SA933S(Q,R)	TRANSISTOR				
Q55			2SA992(F,E)	TRANSISTOR				
Q56			2SD1266(Q,P)	TRANSISTOR				
Q57			2SB941(Q,P)	TRANSISTOR				
CONTROL UNIT (X11-3112-70)								
D14 -25			B30-1291-05	LED				
C3 -6			CF92FV1H224J	MF	0.22UF	J		
C7 ,8			CF92FV1H203J	MF	0.020UF	J		

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

⚠ indicates safety critical components

KA-5040R

SPECIFICATIONS

(For U.K. and Europe)

Continuous rated power output

(DIN) 1 kHz, at 8 Ω ..... 95 W + 95 W
at 4 Ω ..... 140 W + 140 W
(IEC/NF) From 63 Hz to 12,500 Hz, 0.7% T.H.D.
..... at 8 Ω 90 W + 90 W
.... at 4 Ω 135 W + 135 W
Dynamic power ..... 105 W (8 Ω)
..... 175 W (4 Ω)
..... 210 W (2 Ω)

Damping factor ..... 220 (50 Hz)
Total harmonic distortion
..... 0.03% (20 Hz ~ 20,000 Hz, 80 W, 8 Ω)
..... 0.002% (1 kHz, 40 W, 8 Ω)
Intermodulation distortion ..... 0.03% (80 W, 8 Ω)
(70 Hz : 7 kHz = 4:1)
Frequency response
CD ..... 5 Hz ~ 100 kHz, +0 dB, −3 dB
PHONO 'RIAA' response
..... 20 Hz ~ 20 kHz, +0.3 dB, −0.3 dB
Maximum input level
PHONO (MM) ..... 120 mV, 0.03% T.H.D. at 1 kHz
PHONO (MC) ..... 10 mV, 0.03% T.H.D. at 1 kHz

Signal to noise ratio
PHONO (MM) ..... 87 dB (IHF '66)/80 dB (IHF '78)
PHONO (MC) ..... 68 dB (IHF '66)/74 dB (IHF '78)
CD/TUNER/AUX/TAPE
..... 102 dB (IHF '66)/80 dB (IHF '78)
PHONO (MM) ..... 58 dB (DIN, 50 mW output)
CD/TUNER/AUX/TAPE
..... 59 dB (DIN, 50 mW output)
Input sensitivity/impedance
PHONO (MM) ..... 2.5 mV/47 kΩ
PHONO (MC) ..... 0.2 mV/100 Ω
CD/TUNER/AUX/TAPE ..... 200 mV/47 kΩ
ADAPTOR IN ..... 200 mV/47 kΩ
Tone control
BASS ..... ±10 dB (at 100 Hz)
TREBLE ..... ±10 dB (at 10 kHz)
Filter
SUBSONIC filter ..... 18 Hz, −12 dB/oct
Loudness control
VOLUME at −30 dB level
..... +6 dB (100Hz), +3 dB (10 kHz)
Output level/impedance
TAPE REC ..... 200 mV/1 kΩ
ADAPTOR OUT ..... 200 mV/0.2 kΩ

General

Power consumption ..... 250 W
AC outlet
SWITCHED ..... 200 W max.
Dimensions ..... W: 440 mm (17-5/16")
H: 147 mm (5-13/16")
D: 403 mm (15-7/8")
Weight (net) ..... 11.6 kg (25.6 lb)

(For other countries)

Continuous rated power output

(IHF '66) From 20 Hz to 20,000 Hz 0.03% T.H.D.
..... at 8 Ω 80 W + 80 W
(IEC/NF) From 63 Hz to 12,500 Hz, 0.7% T.H.D.
..... at 8 Ω 90 W + 90 W
.... at 4 Ω 135 W + 135 W
Dynamic power ..... 105 W (8 Ω)
..... 175 W (4 Ω)
..... 210 W (2 Ω)

Damping factor ..... 220 (50 Hz)
Total harmonic distortion
..... 0.03% (20 Hz ~ 20,000 Hz, 80 W, 8 Ω)
..... 0.002% (1 kHz, 40 W, 8 Ω)
Intermodulation distortion ..... 0.03% (80 W, 8 Ω)
(70 Hz : 7 kHz = 4:1)
Frequency response
CD ..... 5 Hz ~ 100 kHz, +0 dB, −3 dB
PHONO 'RIAA' response
..... 20 Hz ~ 20 kHz, +0.3 dB, −0.3 dB
Maximum input level
PHONO (MM) ..... 120 mV, 0.03% T.H.D. at 1 kHz
PHONO (MC) ..... 10 mV, 0.03% T.H.D. at 1 kHz
Signal to noise ratio
PHONO (MM) ..... 87 dB (IHF '66)/80 dB (IHF '78)
PHONO (MC) ..... 68 dB (IHF '66)/74 dB (IHF '78)
CD/TUNER/AUX/TAPE
..... 102 dB (IHF '66)/80 dB (IHF '78)

Input sensitivity/impedance
PHONO (MM) ..... 2.5 mV/47 kΩ
PHONO (MC) ..... 0.2 mV/100 Ω
CD/TUNER/AUX/TAPE ..... 200 mV/47 kΩ
ADAPTOR IN ..... 200 mV/47 kΩ
Tone control
BASS ..... ±10 dB (at 100 Hz)
TREBLE ..... ±10 dB (at 10 kHz)
Filter
SUBSONIC filter ..... 18 Hz, −12 dB/oct
Loudness control
VOLUME at −30 dB level
..... +6 dB (100Hz), +3 dB (10 kHz)
Output level/impedance
TAPE REC ..... 200 mV/1 kΩ
ADAPTOR OUT ..... 200 mV/0.2 kΩ
General

Power consumption ..... 250 W
AC outlet
SWITCHED ..... Total 200 W max.
Dimensions ..... W: 440 mm (17-5/16")
H: 147 mm (5-13/16")
D: 403 mm (15-7/8")
Weight (net) ..... 11.6 kg (25.6 lb)

KA-5040R

SPECIFICATIONS

(For Canada)

Continuous rated power output (FTC)

> **80 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz to 20,000 Hz with no more than 0.03% total harmonic distortion.**

Dynamic power ..... **105 W (8 Ω)**
..... **175 W (4 Ω)**
..... **210 W (2 Ω)**

Damping factor ..... **220 (50 Hz)**
Total harmonic distortion ..... **0.03% (20 Hz ~ 20,000 Hz, 80 W, 8 Ω)**
..... **0.002% (1 kHz, 40 W, 8 Ω)**
Intermodulation distortion ..... **0.03% (80 W, 8 Ω)**
(70 Hz : 7 kHz = 4:1)
Frequency response
CD ..... **5 Hz ~ 90 kHz, +0 dB, −3 dB**
PHONO 'RIAA' response ..... **20 Hz ~ 20 kHz, +0.3 dB, −0.3 dB**
Maximum input level
PHONO (MM) ..... **120 mV, 0.03% T.H.D. at 1 kHz**
PHONO (MC) ..... **10 mV, 0.03% T.H.D. at 1 kHz**
Signal to noise ratio
PHONO (MM) ..... **87 dB (IHF '66)/80 dB (IHF '78)**
PHONO (MC) ..... **68 dB (IHF '66)/74 dB (IHF '78)**
CD/TUNER/AUX/TAPE ..... **102 dB (IHF '66)/80 dB (IHF '78)**
Input sensitivity/impedance
PHONO (MM) ..... **2.5 mV/47 kΩ**
PHONO (MC) ..... **0.2 mV/100 Ω**
CD/TUNER/AUX/TAPE ..... **200 mV/47 kΩ**
ADAPTOR IN ..... **200 mV/47 kΩ**
Tone control
BASS ..... **±10 dB (at 100 Hz)**
TREBLE ..... **±10 dB (at 10 kHz)**
Filter
SUBSONIC filter ..... **18 Hz, −12 dB/oct**
Loudness control
VOLUME at −30 dB level ..... **+6 dB (100Hz), +3 dB (10 kHz)**
Output level/impedance
TAPE REC ..... **200 mV/1 kΩ**
ADAPTOR OUT ..... **200 mV/0.2 kΩ**

General

Power consumption ..... **2.6 A**
AC outlets
SWITCHED ..... **3; (Total 200 W, 1.6 A max.)**
Dimensions ..... **W: 440 mm (17-5/16")**
H: 147 mm (5-13/16")
D: 403 mm (15-7/8")
Weight (net) ..... **11.6 kg (25.6 lb)**

Note:
KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Note:
Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

KENWOOD CORPORATION
Shionogi Shibuya Building, 17-5, 2-chome Shibuya, Shibuya-ku, Tokyo 150, Japan
KENWOOD U.S.A. CORPORATION
2201 East Dominguez Street, Long Beach, CA 90810;
550 Clark Drive, Mount Olive, NJ 07828, U.S.A.
KENWOOD ELECTRONICS CANADA INC.
P.O. BOX 1075, 959 Gana Court, Mississauga, Ontario, Canada L4T 4C2
TRIO-KENWOOD U.K. LIMITED
KENWOOD House, Dwight Road, Watford, Herts., WD1 8EB United Kingdom
KENWOOD ELECTRONICS BENELUX N.V
Mechelsesteenweg 418 B-1930 Zaventem, Belgium
KENWOOD ELECTRONICS DEUTSCHLAND GMBH
Rembrücker-Str. 15, 6056 Heusenstamm, Germany
TRIO-KENWOOD FRANCE S.A.
13 Boulevard Ney, 75018 Paris, France
KENWOOD LINEAR S.p.A.
20125, MILANO-VIA ARBE, 50, ITALY
KENWOOD ELECTRONICS AUSTRALIA PTY LTD (INCORPORATED IN N.S.W.)
P.O. Box 504, 8 Figtree Drive, Australia Centre, Homebush, N.S.W. 2140, Australia
KENWOOD & LEE ELECTRONICS, LTD.
Wang Kee Building, 4th Floor, 34-37, Connaught Road, Central, Hong Kong

Druck: Schaltungsdienst Lange Berlin (Germany)